



LIST  
OF THE  
SPECIMENS  
OF  
DIPTEROUS INSECTS  
IN  
THE COLLECTION  
OF THE  
BRITISH MUSEUM.



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PART. I —  
—



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# INTRODUCTION.

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THE principal object of the present Catalogue has been to give a complete list of the specimens of Dipterous Insects contained in the collection of the British Museum, indicating at the same time the peculiarities of each, as regards variations of character, locality, and the source from whence it has been derived. With this view, the different individuals of each species contained in the collection are indicated by the letters *a*, *b*, *c*, &c., following the name of the species and its synonymes, and the description, if it appeared to have been before undescribed.

This part of the Catalogue of Dipterous Insects has been prepared and the new species described, by Mr. FRANCIS WALKER, so well known for his attention to this order of Insects.

The remaining parts, containing the other families, are in hand, and will follow as soon as they can be completed.

JOHN EDWARD GRAY.

*British Museum,*

*Nor. 19, 1848.*



# LIST OF DIPTERA.

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## Sub-order I. PROBOSCIDEÆ.

### Fam. I. TIPULARIÆ.

#### Section I. CULICIFORMES.

#### Div. I.—*Meig. Dipt. i. xxxiii.*

#### MEGARHINA, *Desvoidy.*

MEGARHINA ferox. *Culex ferox*, *Wied. Auss. Zweif. i. 1. Macq. Hist. Nat. Ins. Dipt. i. 33, 3.*

a. Georgia. From Mr. Abbot's collection.

This is not the *Culex ferox* of Humboldt (*Voyage de Humboldt et Bonpland, Relation Historique, ii. 340*); and if the latter species is a Megarhina, Wiedemann's *C. ferox* must receive a new name. Humboldt describes four other species in the above-mentioned work, and names them *C. cyanopennis*, *lineatus*, *chloropterus* and *maculatus*.

MEGARHINA hæmorrhoidalis, *Desvoidy, Essai sur les Culicides, Mém. Soc. d'Hist. Nat. de Paris, iii. 412. Macq. Dipt. Exot. i. 32. Culex hæmorrhoidalis, Fabr. Ent. Syst. iv. 401, 5. Syst. Antl. 8. Wied. Auss. Zweif. i. 2. Macq. Hist. Nat. Ins. Dipt. i. 33, 1.*

a. Para. Presented by Mrs. J. P. G. Smith.

#### SABETHES, *Desvoidy.*

SABETHES scintillans, n. s., mas. *Nigra, iridescens, argenteo micans, antennis subalbis, pedibus pilosis, alis subfuscis.*

Body black, hairy, with iridescent and silvery reflections: feelers about half the length of the body, dull white, adorned with whorls of long dark reddish-brown hairs, and clothed towards their tips with short down: palpi nearly as long as the body, brown; the

two last joints black and hairy: a large silvery spot on each side of the chest: mouth as long as the feelers: legs very thickly clothed with hairs, excepting the fore-legs and the shanks and feet of the middle legs, where the hairs are short and more thin: wings slightly tinged with brown, fringed; veins brown; poisers dull red, with black tips. Length of the body 3 lines; of the wings 6 lines.

a. Para. Presented by Mrs. J. P. G. Smith.

*PSOROPHORA, Desvoidy.*

*PSOROPHORA ciliata, Desv. Essai sur les Culicides, Mém. Soc. d'Hist. Nat. de Paris, iii. 412.*

a. Honduras. From Mr. Miller's collection.

*CULEX, Linn.*

\* *Feet with pale bands.*

*CULEX ciliatus, Fabr. Ent. Syst. iv. 401, 6. Syst. Antl. 10. Coq. Ill. Icon. Ins. t. 27, f. 7. Wied. Dipt. Exot. i. 7, 4. Auss. Zweif. i. 3, 5. Macq. Hist. Nat. Dipt. i. 36, 15.*

a. Georgia. From Mr. Abbot's collection.

*CULEX argyropus, n. s., fem. Niger, argenteo micans, pedibus argenteo maculatis et cinctis, alis subfuscis, marginibus anticis nigris.*

Body black: mouth full half the length of the body: feelers shorter than the mouth: sides of the chest with silvery spots: legs black, very long; a silvery spot on each thigh, near the tip, which is also silvery, as are those of the shanks and of the joints of the feet: wings slightly tinged with brown; their fore borders black; veins dark brown, thickly fringed with black hairs; poisers dark brown. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

*CULEX annulatus, Fabr. Ent. Syst. iv. 400, 2. Syst. Antl. 35, 4. Vill. Ent. iii. 565. Gmel. ed. Syst. Nat. v. 2287, 8. Turt. Trans. iii. 663. Lam. Anim. sans Vertéb. iii. 448, 2. Latr. Hist. Nat. Cr. et Ins. xiv. 284, 3. Gen. Crust. iv. 246. Meig. Dipt. i. 4, 2, t. 1, f. 10. Steph. Zool. Journ. i. 452, 1. Zett. Ins. Lapp. 806, 1. Macq. Hist. Nat. Dipt. i. 35, 12. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 287, 1. C. pipiens, Sam. Ent. Comp. t. 9, f. 5. C. affinis, Steph. Zool. Journ. i. 452, 2.*

a. England.

b. England. From Mr. Walker's collection.

c. Nice. From Dr. Leach's collection.

*CULEX calopus*? *Hoffmansegg, Meig. Dipt. i. 3, 1. Steph. Zool. Journ. i. 452, 3. C. Nicæensis*? *Risso, Lach, Zool. Journ. ii. 292, 2. C. guttatus, Curt. Brit. Ent. 537.*

a. England. From Mr. Walker's collection.

*CULEX cantans, Hoffmansegg, Meig. Dipt. i. 6, 6, t. 1, f. 9. Steph. Zool. Journ. i. 453, 4. Zett. Ins. Lapp. i. 806, 3. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 200, 6. C. fumipennis, var. ? Steph. Zool. Journ. i. 453, 5.*

a. England. From Mr. Walker's collection.

*CULEX nemorosus, Meig. Dipt. i. 4, 3. Steph. Zool. Journ. i. 454, 9. Zett. Ins. Lapp. 806, 2. Macq. Hist. Nat. Dipt. i. 34, 5. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 288, 2. C. reptans, Meig. Klass. Zweif. 1, Aufl. 3, 4. C. sylvaticus, Meig. Dipt. i. 6, 8. Steph. Zool. Journ. i. 454, 7. C. fasciatus, Meig. Klass. Zweif. i. Aufl. 4, 5.*

a. England. From Mr. Walker's collection.

*CULEX dorsalis, Meig. Dipt. vi. 242, 18.*

a. England. From Mr. Walker's collection.

*CULEX fasciatus, Fabr. Syst. Antl. 36, 18. Wied. Auss. Zweif. i. 8, 13.*

a. Jamaica. From Mr. Gosse's collection.

*CULEX viridifrons, n. s., fem. Fuscus, argenteo micans, capite viridi, abdomine fulvo apice fusco, pedibus fulvis, genubus tarsorumque annulis albis, alis limpidis.*

Head and chest brown, clothed with yellow hairs, and adorned with silvery spangles: disk of the head green: chest with three gray stripes: abdomen pale tawny, brown towards the tip, and having a brown line along each side, where it is adorned with large white spots: mouth tawny: feelers and palpi brown: legs tawny; tips of thighs brown; knees white; feet with alternate rings of white, tawny and brown: wings colourless; veins brown, much fringed: poisers yellow, with brown knobs. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

a. ———? Presented by Captain Lord Byron.

*CULEX tæniorhynchus, Wied. Dipt. Exot. i. 43, 1. Auss. Zweif. i. 8, 13. C. damnosus, Say, Journ. Acad. Phil. iii. 1822, 11, 3.*

a. Florida. Presented by E. Doubleday, Esq.

b. Honduras. From Mr. Miller's collection.

**CULEX excitans**, n. s., fem.. *Flavo-fuscus, argenteo micans, thorace albo hirtio, abdomine albo fasciato, pedibus nigro-fuscis, femoribus flavis, genubus tarsorumque articulis 1<sup>o</sup> et 2<sup>o</sup> basi albis, alis limpidis.*

Body pale yellowish brown, adorned with silvery lustre on each side: feelers and mouth dark brown; tip of the latter black: chest clothed with white hairs: abdomen with a band of white hairs on the fore-border of each segment: legs dark brown; base of the first and of the second joints of the feet white; knees also white; thighs yellow, with brown tips: wings colourless; veins brown; poisers yellow. Length of the body 2 lines; of the wings 4 lines.

a. Georgia. From Mr. Abbot's collection.

**CULEX stimulans**, n. s., fem. *Fusco-rufus, capite thoraceque flavo hirtis, abdominis segmentis flavo-cinctis, pedibus fuscis, tarsis nigris, flavo-cinctis, alis limpidis.*

Body brownish red: head and chest clothed with yellow hairs: mouth and feelers dark brown: each segment of the abdomen with a band of yellow hairs on the fore border, and with a few longer yellow hairs on the hind border: thighs pale brown, with black tips; shanks darker brown; feet black, base of each joint pale yellow: wings colourless; veins tawny; poisers pale yellow, with tawny tips. Length of the body 2½ lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**CULEX formosus**, n. s., fem.

Deep rich brown: head much adorned with silvery spangles, as is also the chest, where they form four stripes, of which the inner pair are straight and narrow, the outer pair broad and curved: abdomen also adorned with silvery spangles: mouth black: feelers brown: eyes dark red: legs brown, beset here and there with silvery marks; knees and rings of feet silvery: wings somewhat gray; veins brown, very thickly feathered; poisers yellow. Length of the body 2 lines; of the wings 4 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**CULEX inexorabilis**, n. s., fem. *Nigro-fuscus, argenteo micans, antennis pedibusque nigris, tarsorum articulis albo cinctis, alis subfuscis.*

Body dark brown, adorned with silvery lustre, which especially prevails beneath and on the sides of the body: mouth and feelers black: abdomen wanting: legs black; each joint of the feet with a white band at the base: wings slightly brown; veins dark brown;

poisers yellow, with brown knobs. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. West Africa. From Mr. Fraser's collection.

*CULEX tæniatus*, Wied. *Auss. Zweif.* i. 10, 18.

a. Honduras. From Mr. Miller's collection.

*CULEX titillans*, n. s., fem. *Fuscus, abdominis segmentis utrinque albo maculatis, antennarum articulis albo cinctis, rostro flavo cincto, femoribus basi genubusque pallidis, tarsis albo cinctis, alis subfuscis.*

Body dark brown: feelers black; each joint white at the base: mouth black, with a dull yellow band across it: abdomen with a white spot on each side of the fore border of every segment: legs brown; thighs paler towards the base; knees yellow; feet with a white band at the base of each joint: wings slightly brown; veins brown; poisers yellow, with brown knobs. Length of the body 2 lines; of the wings 4 lines.

a. Brazil. Presented by Mrs. J. P. G. Smith.

*CULEX vexans*, Meig. *Dipt.* vi. 241, 16. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 289, 4.

a. France?

**\*\* Feet without pale bands.**

*CULEX impatiens*, n. s., mas. *Nigro-fuscus, fusco hirtus, thorace trivittato, vitta intermedia apice furcata, abdominis segmentis cano cinctis, pedibus fuscis, tarsis nigris, alis limpidis.*

Body dark brown, clothed with pale brown hairs: feelers and mouth black: chest with three pale brown stripes, the middle one slender and forked towards the tip: abdomen with a hoary band at the fore border of each segment; its sides clothed with long hairs: thighs brown, with black tips; shanks dark brown; feet black: wings colourless; veins brown; poisers very pale brown.

*CULEX impatiens*, fem. *Rufus, flavo hirtus, thorace fusco trivittato, abdomine fusco, segmentis flavo cinctis, pedibus pallide fuscis, femoribus tibiisque apice flavis, tarsis nigro-fuscis, alis limpidis.*

Body red, clothed with yellow hairs: head thickly covered: chest with three brown stripes: abdomen brown, with a yellow band at the fore border of each segment: legs pale brown; tips of the thighs and of the shanks yellow; feet dark brown: wings colour-



less: veins brown; poisers yellow, with brown tips. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CULEX punctator*, Kirby, *North Amer. Zool. Ins.* 309, 1.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CULEX impiger*, n. s., fem. *Niger, capite thoraceque flavo hirtis, thoracis lateribus albo hirtis, abdominis segmentis supra albo fasciatis subtus albis aut flavis, pedibus obscure flavis, femoribus tibiisque apice tarsisque nigris, alis limpidis.*

Body black: head and chest clothed with yellow hairs: sides of the chest clothed with white hairs: abdomen white or yellow beneath, and having on its back a band of white hairs at the fore border of each segment: legs very dingy yellow; feet, and tips of the thighs and of the shanks, black: wings colourless; veins brown; poisers yellow, with brown knobs. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CULEX* ——— *C. pipiens*, Zett. *Ins. Lapp.* 807, 4. *Dahl. Scand. Ins. Lund.* 1833, 7.

a. Alten, Finmark. Presented by F. Walker, Esq.

*Note.*—If, as Mr. Haliday has supposed, this species is the *Culex pipiens* of Linneus, that name, by which it is described in Zetterstedt's work, must be transferred to it, and the *C. pipiens* of more southern entomologists must receive a new denomination.

*CULEX detritus*, Haliday, *Ent. Mag.* i. 151. *Ann. Nat. Hist.* ii. 188.

a. England.

*CULEX iracundus*, n. s., fem. *Niger, capite thoraceque aureo hirtis, abdomine supra flavo, subtus albo cincto, pedibus purpureo-fuscis, femoribus flavis, alis limpidis.*

Body black: head and chest clothed with golden hairs: abdomen with a yellow band at the fore border of each segment; these bands are most narrow in the middle, and they are white on the under-side: legs purplish brown; thighs dull pale yellow, with brown tips: wings colourless; veins pale brown; poisers pale yellow, with brown knobs. Length of the body 2 lines; of the wings 4 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

**CULEX pungens**, Wied. *Auss. Zweif.* i. 9, 16.

a. Jamaica. From Mr. Gosse's collection. ;

**CULEX implacabilis**, n. s., fem. *Niger, capite thorace abdominisque fasciis flavo hirtis, pedibus flavis, femoribus apice nigris, genibus albis, tarsis et metatibiis fuscis, alis limpidis.*

Body black: head and chest thickly clothed with yellow hairs: abdomen with a band of yellow hairs at the fore border of each segment: legs dull yellow; tips of the thighs black; knees dull white; feet and hind shanks dark brown: wings colourless; veins brown; poisers dull white, with brown tips. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**CULEX provocans**, n. s., mas. *Rufo-fuscus, capite thorace abdominisque fasciis albo hirtis, antennis fuscis, pedibus obscure rufis, alis limpidis.*

Body reddish brown, clothed with white hairs, which are most thick on the head and on the chest: feelers and mouth brown: abdomen with a broad white band of hairs at the base of each segment: legs dull red: wings colourless; veins pale brown; poisers yellow, with brown knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. North America.

b. Nova Scotia. From Lieut. Redman's collection.

**CULEX provocans?** fem. *Rufo-fuscus, capite thorace abdominisque fasciis flavo hirtis, antennis pedibusque nigro-fuscis, femoribus flavis, alis limpidis.*

Body reddish brown: head and chest clothed with yellow hairs: feelers and mouth very dark brown: abdomen with a band of yellow hairs at the fore border of each segment: legs dark brown; thighs yellow, with brown tips: wings colourless; veins brown. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**CULEX ornatus**, Hoffmannsegg, Meig. *Dipt.* i. 5. 4. *Steph. Zool. Journ.* i. 454, 6. *Macq. Hist. Nat. Dipt.* i. 35, 9. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 288, 3. *C. equinus*, Meig. *Klass. Zweif.* i. *Aufl.* 3, 4.

a. England. From Mr. Walker's collection.

*CULEX maculatus*, Meig. *Dipt.* i. 6, 7. Steph. *Zool. Journ.* i. 454, 8.

a. England. From Mr. Walker's collection.

b. Haparanda. From Mr. Walker's collection.

*CULEX lateralis*, Megerle, Meig. *Dipt.* i. 5, 4. Gim. *Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 290, 5. C. reptans, Meig. *Klass. Zweif.* i. Aufl. 3, 4.

a. England. From Mr. Walker's collection.

*CULEX sticticus*, Meig. *Dipt.* vii. i. 20.

a. England. From Mr. Walker's collection.

*CULEX quadratimaculatus*, Macq. *Hist. Nat. Dipt.* i. 34, 7. C. quadrimaculatus, Meig. *Dipt.* vii. 2, 21. C. pungens, Desvoidy, *Essai sur les Culicides*. C. musicus? Risso, Leach, *Zool. Journ.* ii. 293, 3.

a. Nice. From Dr. Leach's collection.

*CULEX ciliaris*, Linn. *Syst. Nat.* ii. 1002, 2. C. rufus? Hoffmansegg, Meig. *Dipt.* i. 7, 9. Steph. *Zool. Journ.* i. 456, 16. Gim. *Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 290, 7. Zett. *Ins. Lapp.* 807, 5. C. meridionalis? Leach, *Zool. Journ.* ii. 292, 1.

a. England. From Mr. Walker's collection.

b. Nice. From Dr. Leach's collection.

*CULEX pipiens*, Linn. *Syst. Nat.* i. ii. 1002. Faun. Suec. 1890. Gmel. ed. *Syst. Nat.* v. 2286, 1. Deg. *Ins.* vi. 127, t. 27. Réaum. *Ins.* iv. t. 43, 44. Geoff. *Ins.* ii. 579, t. 19, fig. 4. Turt. *Trans.* iii. 663. Vill. *Ent.* iii. 562. Schell. *Mouch.* t. 41. Fabr. *Sp. Ins.* ii. 469, 1. Ent. *Syst.* iv. 400, 1. *Syst. Antl.* 33, 1. Schrank. *Ins. Austr.* 980. Faun. Boic. iii. 2565. Stew. *Elem.* ii. 268. Berk. *Syn.* i. 166. Shaw, *Gen. Zool.* vi. 2, 387. Latr. *Hist. Nat. Cr. et Ins.* xiv. 284, 1. Gen. *Crust.* iv. 246. Cons. Gén. 442. Lam. *Anim. sans Verteb.* iii. 447, 1. Latr. *Regn. Anim.* 2de edit. v. 439. Meig. *Dipt.* i. 7, 10. Steph. *Zool. Journ.* i. 455, 11. Wood, *Ill. Lin. Gen. Ins.* ii. 97, pl. 67. Sturk, *Elem. Nat. Hist.* ii. 376. Zett. *Ins. Lapp.* 807, 4. Macq. *Hist. Nat. Dipt.* i. 34, 4, pl. 1, fig. 1, bis 2. Gim. *Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 291, 8.

a. England.

*CULEX acer*, n. s., fem. *Flavus, thorace fusco trivittato, pedibus pallide flavis, colore obscuriori variis, alis limpidis.*

Body dull pale yellow: mouth dull yellow: chest with three pale brown stripes: legs pale yellow, shaded with darker colour at intervals: wings colourless; veins dull yellow. Length of the body 2 lines; of the wings 4 lines.

a. New Zealand. A mutilated specimen.

*CULEX fuscus*, Wied. *Auss. Zweif.* i. 6, 9.

a. North Bengal. From Miss Campbell's collection.

b. Moulmein, E. Indies. From Archdeacon Clerk's collection.

*CULEX vagans*, Wied. *Auss. Zweif.* i. 545, 3.

a. Foo-chou-foo, China. Presented by G. T. Lay, Esq.

*CULEX longiareolatus*, Macq., Webb et Berthelot, *Hist. Nat. des Canaries*, 99, 2.

a. Madeira. Presented by T. V. Wollaston, Esq.

### ANOPHELES, Meigen.

*ANOPHELES bifurcatus*, Meig. *Dipt.* i. 11, 1. *Steph. Zool. Journ.* i. 456, 1. *Zett. Ins. Lapp.* 807, 1. *Macq. Hist. Nat. Dipt.* i. 32, 1. *Curt. Brit. Ent.* 210, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 294, 1. *Guer. Icon. Regn. Anim. pl.* 92, fig. 2. *Culex bifurcatus*, Linn. *Syst. Nat.* i. ii. 1002. *Faun. Suec.* 1891. *Gmel. Syst. Nat.* v. 2887, 3. *Vill. Ent.* iii. 563. *Stew. Elem.* ii. 269. *Berk. Syn.* i. 166. *Schrank. Ins. Austr.* 982. *Faun. Boic.* iii. 2566. *Fabr. Spec. Ins.* ii. 469, 2. *C. trifurcatus*, Fabr. *Ent. Syst.* iv. 401, 3. *Syst. Antl.* 35, 5. *Turt. Trans.* iii. 664. *C. claviger*, Fabr. *Syst. Antl.* 35, 6. *Meig. Klass. Zweif.* i. 4, 7, t. 1, f. 8. *Fischer, Mem. Soc. Imp. Nat. Mosc.* iv. 129, t. 1. *Chaoborus antisepticus* (larva), *Lichtenstein, Wied. Arch. Zool.* i. 168.

a. England. From Mr. Walker's collection.

b. England. From Mr. Walker's collection.

*ANOPHELES maculipennis*, Hoffmannsegg, Meig. *Dipt.* i. 11, 2, t. 1, f. 17, 9. *Steph. Zool. Journ.* i. 457, 2. *Zett. Ins. Lapp.* i. 808, 2. *Macq. Hist. Nat. Dipt.* i. 32, 2. *Curt. Brit. Ent.* 210, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 294, 2. *Culex bifurcatus*, Meig. *Klass. Zweif.* i. Aufl. 5, 8.

a. England. From Mr. Walker's collection.

b. Upsal. From Mr. Walker's collection.

### ÆDES, Hoffmannsegg.

*ÆDES cinereus*, Hoffm. Meig. *Dipt.* i. 13, 1, vi. 243, t. 65, f. 1—3. *Macq. Hist. Nat. Dipt.* i. 37, 1.

a. France.

## CORETHRA, Latr.

**CORETHRA plumicornis**, Meig. *Dipt.* i. 16, 1. Zett. *Ins. Lapp.* 809, 1. Macq. *Hist. Nat. Dipt.* i. 47, 1, pl. 1, fig. 3, dis. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 296, 1. Guer. *Icon. Regn. Anim.* pl. 92, fig. 3. *C. lateralis*, Latr. *Gen. Crust.* iv. 247. Panz. *Faun. Germ.* 109, 16. Meig. *Klass. Zweif.* i. 81. *Tipula plumicornis*, Fabr. *Ent. Syst.* iv. 246, 58. Meig. *Klass. Zweif.* 34, 1. *T. cristallina*, Deg. *Ins.* vi. 149, 20. Meig. *Klass. Zweif.* 37, 8. *T. hafniensis*, Gmel. *Syst. Nat.* v. 2826, 101. Réaum. *Ins.* v. t. 6, f. 4—15. *Tanypus lateralis*, Lam. *Anim. sans Verteb.* iii. 444, 7.

a. England.

**CORETHRA culiciformis**, Latr. *Hist. Nat. Cr. et Ins.* xiv. 288. Meig. *Dipt.* i. 16, 2. Macq. *Hist. Nat. Dipt.* i. 47, 2. Latr. *Regn. Anim.* 2de edit. v. 441. *Tipula culiciformis*, Deg. *Ins.* iv. 144, 16, pl. 23, f. 3—5. Latr. *Gen. Crust.* iv. 247. *Tanypus culiciformis*, Lam. *Anim. sans Verteb.* iii. 443, 1.

a. England. From Mr. Walker's collection.

## CHIRONOMUS, Fabr.

## A. Wings naked.

## a. Poisers white or pale.

**CHIRONOMUS plumosus**, Fabr. *Syst. Antl.* 37, 1. Meig. *Dipt.* i. 20, 1. Latr. *Gen. Crust.* iv. 249. Cons. Gén. 442. Macq. *Hist. Nat. Dipt.* i. 48, 1. Zett. *Ins. Lapp.* 809, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 298, 1. *Tipula plumosa*, Linn. *Faun. Suec.* 1758. Gmel. *Syst. Nat.* v. 2820, 26. Fabr. *Spec. Ins.* ii. 406, 31. *Ent. Syst.* iv. 242, 43. Schrank. *Austr. Sp.* 866. *Fauna Boic.* iii. 2313. *Tanypus plumosus*, Lam. *Anim. sans Verteb.* iii. 443, 5. *C. grandis*, Megerle, Meig. *Dipt.* i. 212.

a. England.

b. France.

**CHIRONOMUS annularius**, Latr. *Hist. Nat. Cr. et Ins.* xiv. 289. *Gen. Crust.* iv. 249. Meig. *Dipt.* i. 21, 3. Macq. *Hist. Nat. Dipt.* i. 48, 2. Latr. *Regn. Anim.* 2de edit. v. 441. Zett. *Ins. Lapp.* 809, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 299, 2. *Tipula annularia*, Deg. *Ins.* vi. 146, 18.

a. England. From Mr. Walker's collection.

b. France.

*CHIRONOMUS prasinus*, *Meig. Dipt. i. 22, 4. Macq. Hist. Nat. Dipt. i. 48, 3. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 299, 3.*

- a. England. From Mr. Walker's collection.
- b. France.

*CHIRONOMUS cristatus*, *Fabr. Syst. Antl. 39, 4. Wied. Auss. Zweif. i. 14, 1. Macq. Hist. Nat. Dipt. i. 50, 10.*

- a. North America.

*CHIRONOMUS antarcticus*, *Walker, Linn. Trans. xvii. 332, 2.*

- a. Port Famine, Straits of Magellan. Presented by the Entomological Club.

*CHIRONOMUS pallens*, *Meig. Dipt. i. 22, 5. Macq. Hist. Nat. Dipt. i. 49, 4. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 300, 4.*

- a. England. From Mr. Walker's collection.

*CHIRONOMUS riparius*, *Meig. Dipt. i. 23, 6. Macq. Hist. Nat. Dipt. i. 49, 4. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 300, 5.*

- a. England. From Mr. Walker's collection.
- b. France.

*CHIRONOMUS flaveolus*, *Megerle, Meig. Dipt. i. 23, 7. Macq. Hist. Nat. Dipt. i. 49, 6. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 300, 6. C. flavicollis, Meig. Dipt. i. 24, 9.*

- a. England. From Mr. Walker's collection.

*CHIRONOMUS tentans*, *Fabr. Syst. Antl. 38, 3. Meig. Dipt. i. 24, 8. Macq. Hist. Nat. Dipt. i. 49, 7. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 302, 8. C. vernalis, Meig. Klass. Zweif. i. Aufl. 13, 5.*

- a. England. From Mr. Walker's collection.

*CHIRONOMUS dorsalis*, *Meig. Dipt. i. 25, 10. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 3, 57.*

- a. England. From Mr. Walker's collection.

*CHIRONOMUS pedellus*, *Meig. Dipt. i. 28, 16. Latr. Gen. Crust. iv. 250. Zett. Ins. Lapp. 814, 29. Macq. Hist. Nat. Dipt. i. 51, 14, pl. 1, f. 5. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 303, 10. Tipula fusca, Linn. Faun. Suec. 1759. Chironomus cantans, Fabr. Syst. Antl. 45, 34. Meig. Klass. Zweif. i. 13, 7. T. cantans, Fabr. Ent. Syst. iv. 247, 67. T. pedella, Deg. Ins. vi. 146, 17. T. littoralis, Schrank. Ins. Austr. Sp. 874. Faun. Boic. 2325. Geoff. Ins. ii. 561, 17.*

- a. England.
- b. Sweden. Presented by the Entomological Club.

**CHIRONOMUS Chloris**, *Meig. Dipt. i.* 28, 17. *Macq. Hist. Nat. Dipt. i.* 51, 15.

a. England. From Mr. Walker's collection.

**CHIRONOMUS olivaceus**, *Meig. Dipt. i.* 29, 18. *Macq. Hist. Nat. Dipt. i.* 51, 17.

a. England. From Mr. Walker's collection.

**CHIRONOMUS bifasciatus**, *Meig. Dipt. i.* 29, 19. *Macq. Hist. Nat. Dipt. i.* 50, 13. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 304, 12. *C. rufipes*, *Fabr. Syst. Antl.* 41, 15.

a. England.

**CHIRONOMUS sticticus**, *Meig. Dipt. i.* 37, 36. *Macq. Hist. Nat. Dipt. i.* 55, 39. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 311, 21. *Tipula stictica*, *Fabr. Sp. Ins.* ii. 407, 38. *Gmel. Ed. Syst. Nat.* v. 2828, 106. *T. sticta*, *Fabr. Ent. Syst.* iv. 245, 55. *Meig. Klass. Zweif. i. Aufl.* 19, 23. *Chironomus strictus*, *Fabr. Syst. Antl.* 42, 18.

a. England. From Mr. Walker's collection.

**CHIRONOMUS Histrio**, *Fabr. Syst. Antl.* 41, 13. *Meig. Dipt. i.* 36, 35. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845.

a. England. From Mr. Walker's collection.

**CHIRONOMUS maculipennis**, *Meig. Dipt. i.* 38, 38, vi. 244. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 5, 62.

a. England. From Mr. Walker's collection.

**CHIRONOMUS nubeculosus**, *Meig. Dipt. i.* 37, 37. *Macq. Hist. Nat. Dipt. i.* 54, 34. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 312, 23.

a. England. From Mr. Walker's collection.

**CHIRONOMUS pallipes**, *Macq. Dipt. du Nord.* i. 142, 15. *Hist. Nat. Dipt. i.* 54, 30. *Meig. Dipt.* vii. 7, 132.

a. England. From Mr. Walker's collection.

**CHIRONOMUS nitidus**, *Meig. Dipt. i.* 35, 32. *Macq. Hist. Nat. Dipt. i.* 53, 27. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 310, 19.

a. England. From Mr. Walker's collection.

**CHIRONOMUS obscurimanus**, *Meig. Dipt.* vi. 248, 88.

a. England. From Mr. Walker's collection.

**CHIRONOMUS vitripennis**, *Meig. Dipt. i.* 32, 26. *Macq. Hist. Nat. Dipt. i.* 52, 23.

a. England. From Mr. Walker's collection.

*CHIRONOMUS pusillus*, *Fabr. Syst. Antl.* 45, 38. *Meig. Dipt.* i. 33, 27. *Macq. Hist. Nat. Dipt.* i. 53, 24. *Zett. Ins. Lapp.* 813, 24. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 309, 17. *Tipula pusilla*, *Fabr. Sp. Ins.* ii. 408, 48. *Ent. Syst.* iv. 248, 70. *Gmel. Ed. Syst. Nat.* v. 2822, 37.

a. England. From Mr. Walker's collection.

*CHIRONOMUS scutellatus*, *Meig. Dipt.* i. 33, 28. *Macq. Hist. Nat. Dipt.* i. 53, 25.

a. Alten, Finmark. From Mr. Walker's collection.

*CHIRONOMUS virescens*, *Meig. Dipt.* i. 31, 23. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 309, 16.

a. England. From Mr. Walker's collection.

*CHIRONOMUS viridulus*, *Fabr. Syst. Antl.* 44, 33. *Meig. Dipt.* i. 31, 22. *Macq. Hist. Nat. Dipt.* i. 50, 11. *Zett. Ins. Lapp.* 813, 25. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 307, 14. *C. littoralis*, *Meig. Klass. Zweif.* i. *Aufl.* 14, 9. *Tipula viridula*, *Fabr. Sp. Ins.* ii. 408, 43. *Ent. Syst.* iv. 247, 66. *Gmel. Ed. Syst. Nat.* v. 2822, 35.

a. England. From Mr. Walker's collection.

*CHIRONOMUS viridis*, *Macq. Hist. Nat. Dipt.* i. 52, 21. *Meig. Dipt.* vii. 6, 127.

a. England. From Mr. Walker's collection.

*CHIRONOMUS viridanus*, *Macq. Hist. Nat. Dipt.* i. 52, 22. *Meig. Dipt.* vii. 6, 128. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 320, 41.

a. England. From Mr. Walker's collection.

*CHIRONOMUS nigroviridis*, *Macq. Hist. Nat. Brit.* i. 51, 18. *Meig. Dipt.* vii. 5, 125. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 319, 40.

a. England. From Mr. Walker's collection.

*CHIRONOMUS ictericus*, *Meig. Dipt.* vi. 253, 103.

a. England. From Mr. Walker's collection.

*CHIRONOMUS tremulus*, *Fabr. Syst. Antl.* 40, 9. *Meig. Dipt.* i. 45, 56. *Macq. Hist. Nat. Dipt.* i. 58, 51. *Tipula tremula*, *Linn. Faun. Suec.* 1762. *Gmel. Ed. Syst. Nat.* 2821, 31. *Fabr. Sp. Ins.* ii. 407, 37. *Ent. Syst.* iv. 244, 48.

a. England. From Mr. Walker's collection.



**CHIRONOMUS motitator**, *Meig. Dipt.* i. 45, 55. *Macq. Hist. Nat. Dipt.* i. 57, 48. *Zett. Ins. Lapp.* 812, 16. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 317, 33. *C. motitatrix*, *Fabr. Syst. Antl.* 38, 2. *Tipula motitatrix*, *Linn. Faun. Suec.* 1760. *Gmel. Ed. Syst. Nat.* v. 2821, 29. *Fabr. Sp. Ins.* ii. 406, 31. *Ent. Syst.* iv. 243, 44. *Geoff. Ins.* ii. 567, 27. *Schrank. Faun. Boic.* iii. 2318. *Ins. Austr.* 872. *Latr. Gen. Crust.* iv. 250. *Tanypus motitatrix*, *Lam. Anim. sans Verteb.* 2de edit. iii. 443, 6.

a. England. From Mr. Walker's collection.

**CHIRONOMUS trifasciatus**, *Meig. Dipt.* i. 42, 50. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 316, 31.

a. England. From Mr. Walker's collection.

**CHIRONOMUS sylvestris**, *Fabr. Syst. Antl.* 47, 46. *Meig. Dipt.* i. 43, 53. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 316, 32. *Tipula sylvestris*, *Fabr. Ent. Syst.* iv. 252, 89. *Chironomus vibratorius*, *Meig. Klass. Zweif.* i. 16, 13.

a. England. From Mr. Walker's collection.

**CHIRONOMUS tricinctus**, *Meig. Dipt.* i. 41, 49. *Macq. Hist. Nat. Dipt.* i. 56, 45. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 314, 30.

a. England. From Mr. Walker's collection.

**CHIRONOMUS bicinctus**, *Megerle, Meig. Dipt.* i. 41, 48. *Macq. Hist. Nat. Dipt.* i. 56, 44. *Zett. Ins. Lapp.* 812, 17. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 314, 29.

a. England. From Mr. Walker's collection.

**CHIRONOMUS tibialis**, *Meig. Dipt.* i. 41, 47. *Macq. Hist. Nat. Dipt.* i. 56, 42. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 314, 28.

a. England. From Mr. Walker's collection.

**CHIRONOMUS albimanus**, *Meig. Dipt.* i. 40, 45. *Macq. Hist. Nat. Dipt.* i. 57, 56. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, 312, 25. *C. annularis*, *Meig. Klass. Zweif.* i. *Auft.* 17, 16.

a. England. From Mr. Walker's collection.

**CHIRONOMUS tendens**, *Fabr. Syst. Antl.* 39, 7. *Meig. Dipt.* i. 34, 30. *Macq. Hist. Nat. Dipt.* i. 53, 26. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 310, 18. *Tipula tendens*, *Fabr. Ent. Syst.* iv. 243, 47.

a. England. From Mr. Walker's collection.

*CHIRONOMUS carbonarius*, Meig. *Dipt.* i. 40, 43. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 313, 26.

a. England. From Mr. Walker's collection.

*CHIRONOMUS albolineatus*, Meig. *Dipt.* i. 39, 40. *Macq. Hist. Nat. Dipt.* i. 55, 36.

a. England. From Mr. Walker's collection.

*CHIRONOMUS littorellus*, Meig. *Dipt.* i. 26, 12. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii.

a. England. From Mr. Walker's collection.

*CHIRONOMUS pilipes*, Megerle, Meig. *Dipt.* i. 26, 13.

a. England. From Mr. Walker's collection.

*CHIRONOMUS leucopogon*, Meig. *Dipt.* i. 39, 42. *Macq. Hist. Nat. Dipt.* i. 55, 36. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 312, 24.

a. England. From Mr. Walker's collection.

*CHIRONOMUS occultans*, Meig. *Dipt.* vi. 254, 109. Zeller, *Isis*, 1842, 807, 1. *Hydrobænus lugubris*, Fries, *Vet. Acad. Handl.* ix. 1829. *Isis*, 1831. *Psilocerus occultans*, Ruthe, *Isis*, 1831, 1206.

a. England. From Mr. Walker's collection.

*CHIRONOMUS bimacula*, n. s., fem. *Luteus, thorace luteo trivittato et nigro bimaculato, antennis fuscis, pedibus flavis, alis pallidis.*

Body citron colour: chest produced in front, with the usual three stripes of orange colour; a black dot at the tip of each side stripe: feelers brown: legs dingy yellow: wings pale; veins and poisers pale yellow. Length of the body  $1\frac{1}{2}$  line; of the wings  $2\frac{1}{4}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHIRONOMUS lateralis*, Walker, *Linn. Trans.* xvii. 332, 3.

a. Port Famine, Straits of Magellan. Presented by the Entomological Club.

*CHIRONOMUS confinis*, n. s., mas. et fem. *Flavo-viridis (mas.) aut flavus (fem.), thorace rufo trivittato, antennis fuscis, pedibus flavis hirtis, alis limpidis pilosis.*

*Male.*—Pale yellowish green: chest with the usual three lines dull red; the middle stripe divided: hind chest brown: abdomen green, yellowish towards the base, darker at the tip; the sides hairy:

feelers brown: legs dull yellow, hairy: wings colourless, hairy; veins pale brown; poisers white. *Fem.*—Chest yellow; middle stripe not divided: abdomen dingy yellow. Length of the body 1 line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHIRONOMUS albitibia*, n. s., mas. *Fuscus, nitens, abdomine nigro-fusco, pedibus flavis, tibiis albis, alis limpidis.*

Body brown, shining: abdomen dark brown: feelers pale brown: legs dull yellow; shanks white: wings colourless; veins dull yellow; poisers brown. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*CHIRONOMUS socius*, n. s., mas. *Nigro-fuscus, thorace hirto, antennis fuscis, pedibus pallide fuscis, alis albidis.*

Body dark brown: chest rather hairy, not shining: feelers brown: legs dull pale brown: wings whitish; veins and poisers dull yellow. Length of the body  $1\frac{1}{4}$  line; of the wings  $2\frac{1}{4}$  lines.

a. East Indies.

*CHIRONOMUS jucundus*, n. s., mas. *Rufus, thoracis vittis scutelloque nigris, abdomine flavo cingulis apiceque nigris, antennis fulvis, pedibus flavis, tibiis apice fuscis, alis albis.*

Chest red, with a broad black stripe on each side; scutcheon black: abdomen yellow, hairy; hind borders of the segments, and the whole of the latter segments, black: feelers tawny, and adorned with tawny hairs: legs pale yellow, hairy; tips of shanks brown: wings white; veins pale yellow; poisers white. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. Georgia. From Mr. Abbot's collection.

*CHIRONOMUS nigritibia*, n. s. *Niger, abdomine basi flavo, antennis fuscis, pedibus flavis, femoribus tibiis tarsorumque articulis apice nigris, alis limpidis fusco fasciatis.*

Chest black: abdomen yellow at the base: palpi brown: legs yellow; tips of thighs, and of shanks, and of joints of feet, black: wings colourless; a broad brown band across each wing, faint towards the hind border; veins brown, yellow towards the base: poisers lemon-colour. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**CHIRONOMUS hiliaris**, n. s., mas. *Pallide flavus, thorace fulvo flavo trivittato, antennis fulvis, pedibus fuscis, femoribus basi albis, mesotibiis flavis, alis albis fusco fasciatis.*

Body straw-colour: head and chest tawny, the latter produced in front, and having its usual three stripes of a yellow colour: feelers tawny: eyes black: legs brown; thighs white towards the base: middle shanks pale yellow, excepting the base and the tips: wings white, each having a broad irregular brown band across its disk; veins yellow; poisers pale yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. ——— ?

**CHIRONOMUS albigaster**, n. s., mas. *Rufo-fuscus, thoracis vittis rufis et canis, scutello rufo, abdomine nigro-fusco, antennis fuscis, pedibus fulvis hirtis, alis albidis.*

Body reddish brown: stripes on chest red or flesh colour; side stripes passing into two broad white stripes: sides of chest hoary; scutcheon pale red: abdomen dark brown, hairy: sutures of the segments paler: feelers pale brown: legs pale tawny, hairy; tips of thighs, of shanks, and of feet, darker: wings whitish, not hairy; veins pale yellow; poisers white. Length of the body 3 lines; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. *Poisers dark.*

**CHIRONOMUS stercorarius**, Meig. *Dipt.* i. 46, 57. *Macq. Hist. Nat. Dipt.* i. 58, 52. *Zett. Ins. Lapp.* 815, 33. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 321, 44. *C. chiopterus*, Meig. *Klass. Zweif. Ins.* i. Aufl. 17, 18. *Tipula stercoraria*, Deg. *Ins.* vi. 149, 22, t. 22, f. 14—20, t. 23, f. 1. *Schrank. Faun. Boic.* iii. 2319.

a. England. From Mr. Walker's collection.

**CHIRONOMUS byssinus**, Meig. *Dipt.* i. 46, 68. *Macq. Hist. Nat. Dipt.* i. 58, 54. *Zett. Ins. Lapp.* 815, 33. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 321, 45. *Tipula byssina*, *Schrank. Faun. Boic.* iii. 2330.

a. England. From Mr. Walker's collection.

**CHIRONOMUS aterrimus**, Meig. *Dipt.* i. 47, 59. *Bull. Soc. Imp. Nat. Mosc.* 1845, iii. 321, 46.

a. England. From Mr. Walker's collection.

**CHIRONOMUS minimus**, *Meig. Dipt. i. 47, 61. Macq. Hist. Nat. Dipt. i. 59, 55.*

a. England. From Mr. Walker's collection.

**CHIRONOMUS moerens**, n. s., mas. *Niger, hirtus, abdomine nigro-fusco, pedibus fusco-fulvis, alis albis.*

Size and form of *C. plumosus*: body black: feelers and their plumes dark brown: palpi brown: abdomen dark brown, very hairy; hind border of segments paler: legs dark tawny, very hairy; thighs darker than shanks; hips almost black: wings white; spots on the disk extremely small; veins tawny; poisers brown. Length of the body 4 lines; of the wings 5 lines.

a. England?

**CHIRONOMUS crassicollis**, n. s., mas. *Nigro-fuscus, pubescens, antennis pedibusque fuscis, alis albis.*

Body blackish brown, downy: chest thick: abdomen much narrower than the chest: feelers and legs brown: wings white, not hairy, very iridescent; veins pale yellow; poisers brown. Length of the body 1 line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

#### B. Wings hairy.

**CHIRONOMUS fuscipes**, *Meig. Dipt. i. 49, 65. Macq. Hist. Nat. Dipt. i. 59, 65. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 324, 51.*

a. England. From Mr. Walker's collection.

**CHIRONOMUS vernus**, *Meig. Dipt. i. 49, 66.*

a. England. From Mr. Walker's collection.

**CHIRONOMUS flavipes**, *Meig. Dipt. i. 50, 67. Macq. Hist. Nat. Dipt. i. 59, 59. Zett. Ins. Lapp. 816, 37. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 324, 52.*

a. England. From Mr. Walker's collection.

**CHIRONOMUS Junci**, *Meig. Dipt. i. 50, 68. Macq. Hist. Nat. Dipt. i. 60, 60.*

a. England. From Mr. Walker's collection.

**CHIRONOMUS flabellatus**, *Meig. Dipt. i. 51, 70. Gim. Bull. Soc. Imp. Nat. Mosc. 1845, iii. 325, 54.*

a. England. From Mr. Walker's collection.

b. France.

*CHIRONOMUS albidus*, Wied. Meig. Dipt. i. 51, 71.

a. England. From Mr. Walker's collection.

*CHIRONOMUS æstivus*, Curt. Brit. Ent. 90. *C. hirtipes*, Macq. Hist. Nat. Dipt. i. 59, 57. Meig. Dipt. vii. 11, 10.

a. England. From Mr. Walker's collection.

*CHIRONOMUS unicolor*, n. s., fem. *Luteus hirtus, antennis flavis, pedibus pallide flavis, hirsutissimis, alis limpidis pilosis ciliatis.*

Body hairy, saffron or pale orange colour: feelers yellow: eyes black: legs pale yellow, very hairy: wings colourless, hairy, fringed; veins yellow; poisers pale yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

Allied to *C. æstivus*.

*CHIRONOMUS lasiomerus*, n. s., mas. *Viridis, capite thoracisque vittis luteis, thorace producto, abdomine flavo ciliato, pedibus flavis hirtis, alis albis.*

Head orange: feelers very downy; their hairs yellow: chest green; the usual three stripes orange-coloured: abdomen yellow, thickly fringed with hairs along each side: legs yellow, hairy, especially the feet and the tips of the shanks of the fore legs: wings white; veins pale yellow; poisers yellowish white. Length of the body  $4\frac{1}{2}$  lines; of the wings 6 lines.

a. St Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

This species has the chest produced in front, like that of *C. æstivus*, to which it is nearly allied.

*CHIRONOMUS festivus*, Say, Journ. Acad. Phil. iii. 13, 2. \* Wied. Anal. Ent. 10. Auss. Zweif. i. 16, 5.

a. St. Martin's Fall's, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHIRONOMUS lasiopus*, n. s., fem. *Flavus, thorace fusco trivittato, metathorace nigro, abdomine fusco segmentis flavo cinctis, pedibus flavis, tarsis fuscis, alis limpidis subpunctatis.*

Head and chest yellow; the three usual stripes on the latter brown, confluent, and occupying the whole of the back: feelers brown: scutcheon dingy yellow: hind chest black: abdomen brown, with a broad dingy yellow band on the hind border of each segment: legs clothed with short hairs; thighs yellow; shanks darker; feet

brown: wings colourless, with the usual spot on the disk; veins brown; poisers pale yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHIRONOMUS attenuatus*, n. s., mas. *Griseus, flavo hirtus, abdomine pedibusque anticis longis, antennis fuscis, pedibus flavis hirtis, alis subgriseis.*

Body dark gray, thinly clothed with yellow hairs: abdomen very long, fringed with hairs on each side: feelers brown: legs dull yellow, hairy, especially the four hinder thighs and shanks; fore feet very long, hairy at the base: wings slightly gray, with the usual dark spot on each, and having a fringe of very short hairs; veins brown; poisers dark gray. Length of the body 3 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

\* *CHIRONOMUS flavicingula*, n. s., mas. *Griseus, thorace albo quadrimaculato, abdominis segmentis albo cinctis, antennis pedibusque nigris, his flavo cinctis, alis limpidis.*

Body gray, with two large white spots on each side of the chest: abdomen fringed with hairs on each side, and having a white silvery band on the hind border of each segment: feelers black: legs black, hairy; a yellow ring near the tip of each thigh, and two yellow rings round each shank; feet dull yellow towards the base: wings colourless, with the usual dark spot on each; veins pale brown; poisers gray. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHIRONOMUS fimbriatus*, n. s. *Fuscus, hirtus, abdomine ciliato, antennis pedibusque pallide fuscis, his hirtis, alis limpidis pilosis ciliatis.*

Body brown, hairy: abdomen fringed with hairs: feelers and legs pale brown, the latter hairy: wings colourless, hairy, fringed; poisers pale brown. Length of the body  $\frac{1}{2}$  line; of the wings 1 line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**CHIRONOMUS trichomerus**, n. s., mas. *Viridi-flavus, abdomine ciliato, antennis pedibusque flavis, his pilosis, alis albidis ciliatis.*

Pale greenish yellow: sides of abdomen fringed with hairs: eyes black: feelers and legs yellow, the latter thickly clothed with short hairs: wings whitish, deeply fringed; poisers pale yellow. Length of the body 1 line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**CHIRONOMUS brunneus**, n. s., mas. *Fuscus, thorace griseo trivittato, abdomine pedibusque flavo-fuscis, femoribus basi flavis, alis limpidis.*

Head and chest brown, the latter with the usual three stripes of a pale gray colour: abdomen yellowish brown: feelers brown: legs yellowish brown; thighs yellow at the base: wings colourless; veins and poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**CHIRONOMUS anticus**, n. s. *Sericeo-albus, thoracis vittis fulvis, abdomine flavo hirtio, apice fulvo, pedibus flavis, femoribus, tibiis, tarsorumque articulis apice fulvis, metafemoribus fulvo cinctis, alis albis, apice fulvis.*

Chest a little produced in front, silky white, with the usual three stripes of bright tawny colour: abdomen pale yellow, hairy; two last segments dull tawny; legs pale yellow, hairy; a tawny band round each hind thigh; tips of the thighs, of the shanks, and of the joints of the feet, tawny: wings whitish from the base to the middle, pale tawny thence to the tips, slightly fringed; poisers pale yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. Georgia. From Mr. Abbot's collection.

**CHIRONOMUS pellucidus**, Barnston, MSS., mas. *Flavo-viridis, pallidus, hirtus, antennis subfuscis, pedibus pilosis, alis limpidis, ciliatis.*

Body pale yellowish green: feelers pale brown: abdomen and legs very hairy: wings colourless, hairy, deeply fringed; veins dull yellow; poisers pale yellow. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.



## TANYPUS, Meigen.

**TANYPUS nebulosus**, Meig. *Dipt.* i. 57, 2. *Curt. Brit. Ent.* 501. *Fries, Monogr. Tanyp. Suec.* 10, 2. *Zett. Ins. Lapp.* 817, 4. *Macq. Hist. Nat. Dipt.* i. 817, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, 6, 2.

a. England.

b. Alten, Finmark. From Mr. Walker's collection.

**TANYPUS decedens**, n. s. *T. nebuloso simillimus, femoribus tibiisque apice pallidis, alis vix nebulosis.*

This species resembles *T. nebulosus*, but the spots on the wings are much fainter, and the tips of the thighs and of the shanks are not dark. Length of the body 2 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**TANYPUS varius**, Meig. *Dipt.* i. 56, 1, vi. 257. *Macq. Hist. Nat. Dipt.* i. 61, 1. *Latr. Regn. Anim. 2de edit.* v. 442. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 6, 1. *Tipula varia, Fabr. Mant. Ins.* ii. 325, 45. *Ent. Syst.* iv. 244, 52. *Gmel. Ed. Syst. Nat.* v. 2821, 96. *Meig. Klass. Zweif.* i. 33, 9. *Chironomus varius, Fabr. Syst. Antl.* 41, 14. *Tanypus punctatus, Meig. Klass. Zweif.* i. 21, 2.

a. England.

b. England. From Mr. Walker's collection.

**TANYPUS punctatus**, Meig. *Dipt.* i. 58, 3. *Chironomus punctatus, Fabr. Syst. Antl.* 43, 24. *Tanypus nebulosus, Meig. Klass. Zweif.* i. 23, 7.

a. England. From Mr. Walker's collection.

b. France.

**TANYPUS notatus**, Meig. *Dipt.* i. 58, 4.

a. England. From Mr. Walker's collection.

**TANYPUS melanurus**, Meig. *Dipt.* i. 59, 5.

a. England. From Mr. Walker's collection.

**TANYPUS zonatus**, Meig. *Dipt.* i. 59, 6. *Macq. Hist. Nat. Dipt.* i. 61, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 6, 3. *Tipula zonata, Fabr. Sp. Ins.* ii. 408, 45. *Mant. Ins.* ii. 326, 55. *Ent. Syst.* iv. 246, 64. *Gmel. Ed. Syst. Nat.* v. 2822, 97. *Chironomus zonatus, Fabr. Syst. Antl.* 44, 30.

a. England. From Mr. Walker's collection.

b. France.

**TANYPUS monilis**, Meig. *Dipt.* i. 60, 8. *Fries, Monogr. Tan. Suec.* 13, 7. *Zett. Ins. Lapp.* 818, 6. *Macq. Hist. Nat. Dipt.* i. 62, 9. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 7, 4. *Tipula monilis*, Linn. *Faun. Suec.* 1763. *Gmel. Ed. Syst. Nat.* 2822, 83. *Fabr. Sp. Ins.* ii. 408, 44. *Mant. Ins.* ii. 326, 54. *Ent. Syst.* iv. 246, 63. *Syst. Antl.* 44, 29. *T. maculata*, Deg. *Ins.* vi. 151, 23, t. 27, f. 15—19. *Tipule, &c., Geoff. Ins.* ii. 564, 20. *Chironomus monilis*, *Fabr. Syst. Antl.* 44, 29. *Meig. Klass. Zweif.* i. 19, 24. *Tanypus maculatus*, Latr. *Hist. Nat. Cr. et Ins.* xiv. 289. *Meig. Klass. Zweif.* i. 25 a.

a. England. From Mr. Walker's collection.

**TANYPUS punctipennis**, Meig. *Dipt.* ii. 61, 9. *Fries, Monogr. Tanyp. Suec. Macq. Hist. Nat. Dipt.* i. 62, 5. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 7, 5. *Quatbr. Zeitsch.* 1830, ii. Heft. 8, 15. *Tanypus cinctus*, Panz. *Faun. Germ.* cv. 6. Latr. *Gen. Crust.* iv. 248. *Cons. Gén.* 442. *Meig. Klass. Zweif.* i. 22, 4.

a. England. From Mr. Walker's collection.

**TANYPUS choreus**, Meig. *Klass. Zweif.* i. 23, 6. *Dipt.* i. 62, 12. *Macq. Hist. Nat. Dipt.* i. 62, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 8, 7. *T. fasciatus*, Meig. *Klass. Zweif.* i. 21, 3. *T. sylvaticus*, Meig. *Klass. Zweif.* i. 24, 9.

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

**TANYPUS culiciformis**, Meig. *Dipt.* i. 63, 13. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 8, 8. *Tipula culiciformis*, *Fabr. Sp. Ins.* ii. 411, 64. *Mant. Ins.* ii. 327, 75. *Ent. Syst.* iv. 251, 87. *Gmel. Ed. Syst. Nat.* v. 2826, 52. *Chironomus culiciformis*, *Fabr. Syst. Antl.* 47, 44.

a. England. From Mr. Walker's collection.

**TANYPUS nervosus**, Hoffmansegg, Meig. *Dipt.* i. 64, 14, vi. 257. *Macq. Hist. Nat. Dipt.* i. 62, 7. *T. ater?* *Macq. Hist. Nat. Dipt.* i. 63, 10. *Meig. Dipt.* vii. 17, 40. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 10, 13.

a. England. From Mr. Walker's collection.

**TANYPUS albipes**, Fries, *Mon. Tanyp. Suec.* 16, 11. *Meig. Dipt.* vi. 259, 24. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 9, 12.

a. England. From Mr. Walker's collection.

CERATOPOGON, *Meigen*.A. *Thighs slender, unarmed.*a. *Wings naked.*

CERATOPOGON holosericeus, *Meig. Dipt. i. 70, 1.*

a. England.

b. England. From Mr. Walker's collection.

CERATOPOGON communis, *Meig. Dipt. i. 70, 2, vi. 266. Macq.*

*Hist. Nat. Dipt. i. 65, 3. Gim. Bull. Soc. Imp. Nat. Mosc.*

1846, iii. 10, 1. Chironomus communis, *Fabr. Syst. Antl. 44,*

3. Trichocera communis, *Lam. Anim. sans Vertéb. iii. 440, 2.*

a. England. From Mr. Walker's collection.

CERATOPOGON leucopterus, *Meig. Dipt. i. 72, 8. Panz. Faun.*

*Germ. ciii. 11.*

a. England. From Mr. Walker's collection.

CERATOPOGON chiopterus, *Meig. Dipt. vi. 263, 50.*

a. England. From Mr. Walker's collection.

CERATOPOGON signatus, *Meig. Dipt. i. 74, 16.*

a. England. From Mr. Walker's collection.

CERATOPOGON niveipennis, *Meig. Dipt. i. 73, 12. Macq. Hist. Nat.*

*Dipt. i. 66, 9.*

a. England. From Mr. Walker's collection.

CERATOPOGON stigma, *Meig. Dipt. i. 73, 14.*

a. England. From Mr. Walker's collection.

CERATOPOGON concinnus, *Meig. Dipt. i. 77, 23. Zett. Ins. Lapp.*

820, 1. *Macq. Hist. Nat. Dipt. ii. 648, 21. Sphæromias*

concinnus, *Haliday, Ent. Mag. i. 15, 2.*

a. England. From Mr. Walker's collection.

CERATOPOGON venustus, *Meig. Dipt. i. 78, 24, vi. 261. Macq. Hist.*

*Nat. Dipt. i. 65, 6. Sphæromias varipes, Stephens, Curt. Brit.*

*Ent. 285, 3. Haliday, Ent. Mag. i. 152.*

a. England. From Mr. Walker's collection.

CERATOPOGON ornatus, *Meig. Dipt. vi. 262, 47.*

a. England. From Mr. Walker's collection.

CERATOPOGON minutus, *Meig. Dipt. vi. 263, 49.*

a. England. From Mr. Walker's collection.

b. *Wings hairy.*

CERATOPOGON palustris, *Meig. Dipt. i. 71, 5, vi. 266. Macq. Hist. Nat. Dipt. i. 66, 10. Latr. Gen. Crust. iv. 251. Gm. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 11, 3.*

a. England. From Mr. Walker's collection.

CERATOPOGON brunnipes, *Meig. Dipt. i. 71, 7. Zett. Ins. Lapp. 821, 7.*

a. England. From Mr. Walker's collection.

CERATOPOGON lucorum, *Meig. Dipt. i. 72, 9. Macq. Hist. Nat. Dipt. i. 66, 11.*

a. England. From Mr. Walker's collection.

CERATOPOGON pulicaris, *Meig. Dipt. i. 75, 20. Macq. Hist. Nat. Dipt. i. 65, 7. Zett. Ins. Lapp. 821, 8. C. punctatus, Panz. Faun. Germ. 103, 12. Meig. Klass. Zweif. 29, 10. Culex pulicaris, Linn. Faun. Suec. 1892. Gmel. Syst. Nat. v. 2888. Fabr. Sp. Ins. ii. 470, 4. Ent. Syst. iv. 402, 7. Syst. Antl. 36, 12. Meig. Klass. Zweif. i. 6 a. Lam. Anim. sans Verteb. iii. 448, 3. Berk. Syn. Nat. Hist. i. 166. Stew. El. Nat. Hist. ii. 269. Turt. iii. 664. Culicoides punctata, Latr. Gen. Crust. iv. 252. Cons. Gén. 442. Geoff. Ins. ii. 579, 2.*

a. England.

CERATOPOGON bipunctatus, *Meig. Dipt. i. 74, 18. Macq. Hist. Nat. Dipt. i. 66, 13. Tipula bipunctata, Gmel. Ed. Syst. Nat. v. 2827, 57. Ceratopogon trichopterus, Meig. Klass. Zweif. i. 31, 17. C. geniculatus, Guérin, Ann. Soc. Ent. France, ii. 161. Forcipomyia bipunctata, Megerle. Labidomyia bipunctata, Stephens.*

a. England. From Mr. Walker's collection.

CERATOPOGON fuliginosus, *Hoffmansegg. Meig. Dipt. i. 86, 45.*

a. Aix la Chapelle. From Mr. Walker's collection.

CERATOPOGON fuscus, *Meig. Dipt. i. 71, 6.*

a. England. From Mr. Walker's collection.

CERATOPOGON, transiens, n. s. *Niger, antennis fuscis, pedibus flavis, alis limpidis.*

Body black, dull: chest very convex: feelers brown, thickly clothed with short hairs: legs very dull yellow: wings colourless; veins yellow; poisers white. Length of the body  $\frac{1}{2}$  line; of the wings 1 line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CERATOPOGON parvus*, Barnston MSS., fem. *Niger, antennis pedibusque pallide flavis pilosis, alis griseis pubescentibus.*

Body black, hairy: feelers and legs pale dull yellow, very hairy: wings gray, fringed, and very hairy; poisers pale yellow. Length of the body  $\frac{1}{2}$  line; of the wings 1 line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CERATOPOGON castaneus*, n. s. *Rufo-fuscus, hirtus, antennis pedibusque flavis, alis pilosis subgriseis.*

Body reddish brown or chestnut colour, hairy: feelers dull yellow, hairy: legs yellow: wings tinged with gray, rather darker towards the base of the fore border, slightly hairy and fringed; poisers pale yellow. Length of the body  $\frac{3}{4}$  line; of the wings 1 line.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*CERATOPOGON pallipes*, Meig. Dipt. i. 74, 17.

a. England. From Mr. Walker's collection.

## B. Fore thighs armed beneath with spines.

### Palpomyia, Megerle.

*CERATOPOGON hortulanus*, Meig. Dipt. i. 81, 31. Zett. Ins. Lap. 821, 10.

a. England. From Mr. Walker's collection.

b. England. From Mr. Walker's collection.

*CERATOPOGON fasciatus*, Meig. Dipt. i. 79, 27. Macq. Hist. Nat. Dipt. i. 14, 15. Blanch. Hist. Nat. Anim. Art. iii. 566.

a. England. From Mr. Walker's collection.

*CERATOPOGON obscurus*, n. s. *Niger, abdomine nigro-fusco, pedibus pallide fuscis, alis albidis.*

Body black: chest broad and deep: abdomen dark brown: legs pale brown: wings whitish; veins pale yellow; poisers white. Length of the body 1 line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CERATOPOGON cingulatus*, Meig. Dipt. i. 79, 28. Sphæromias albomarginatus, Stephens, Curt. Brit. Ent. 285, 1.

a. England. From Mr. Walker's collection.

CERATOPOGON rufipes, *Meig. Dipt. i. 81, 32.*  
*a. England. From Mr. Walker's collection.*

CERATOPOGON spinipes, *Meig. Dipt. i. 81, 33.*  
*a. England. From Mr. Walker's collection.*

CERATOPOGON tibialis, *Megerle, Meig. Dipt. i. 82, 36.*  
*a. England. From Mr. Walker's collection.*

CERATOPOGON apicalis, *Roser, Corr. Wurt. Landw. Ber. 1840, i. 1, 50.*  
*a. England. From Mr. Walker's collection.*

CERATOPOGON basalis, *n. s. Niger, abdomine basi fulvo, pedibus fuscis, femoribus flavis, metafemoribus apice fuscis, alis subgriseis.*

Nearly allied to *C. succinctus*. Body black: abdomen tawny towards the base: legs brown; thighs yellow; hind thighs brown from the middle to the tips: wings slightly gray, especially towards the tips; veins dull tawny; poisers tawny, with brown tips. Length of the body  $1\frac{1}{4}$  line; of the wings 4 lines.

*a. Trenton Falls. Presented by E. Doubleday, Esq.*

CERATOPOGON succinctus, *Hoffmansegg, Meig. Dipt. i. 85, 42.*  
*a. England.*  
*b. England. From Mr. Walker's collection.*

CERATOPOGON flavipes, *Meig. Dipt. i. 82, 35.*  
*a. England. From Mr. Walker's collection.*

CERATOPOGON ferrugineus, *Meig. Dipt. vi. 265, 58.*  
*a. England. From Mr. Walker's collection.*

CERATOPOGON gracilis, *Haliday, Ent. Mag. i. 162.*  
*a. England. From Mr. Walker's collection.*

*C. Hind thighs thick, armed beneath with spines.*

CERATOPOGON femoratus, *Meig. Dipt. i. 83, 37. Macq. Hist. Nat. Dipt. i. 83, 37. Zett. Ins. Lapp. 822, 11. Chironomus femoratus, Fabr. Syst. Antl. 45, 35. Latr. Gen. Crust. iv. 250. Trichocera femorata, Lam. Anim. sans Verteb. iii. 440, 1. Seromyia femorata, Megerle. Prionomyia femorata, Stephens.*  
*a. England.*  
*b. France.*

## LIST OF DIPTERA.

*CERATOPOGON armatus*, *Meig. Dipt. i. 83, 39.*

a. England. From Mr. Walker's collection.

*CERATOPOGON MORIO*, *Meig. Dipt. i. 84, 40. Macq. Hist. Nat. Dipt. i. 87, 18. Gen. Bull. Soc. Imp. Nat. Mosc. xv. 642, —1846, iii. 12, 6. Culex Morio, Fabr. Spec. Ins. ii. 470, 6. Mant. Ins. ii. 364, 8. Ent. Syst. iv. 402, 9. Syst. Antl. 36, 14. Meig. Klass. Zweif. ii. 7, 6. Stew. El. Nat. Hist. ii. 269. Turt. iii. 664.*

a. England.

b. England. From Mr. Walker's collection.

*CERATOPOGON rufitarsis*, *Meig. Dipt. i. 83, 39.*

a. England. From Mr. Walker's collection.

*CERATOPOGON ater*, *Megerle, Meig. Dipt. i. 84, 41.*

a. England. From Mr. Walker's collection.

### ORPHNEPHILA, Haliday.

*ORPHNEPHILA devia*, *Haliday, Zool. Journ. v. Ent. Mag. i. 156.*

*Chenesia testacea*, *Macq. Hist. Nat. Dipt. i. 152, pl. 4, f. 3—5.*

*Meig. Dipt. vii. 51, 1, pl. 67, f. 5, 6.*

a. From Mr. Walker's collection.

### ASTHENIA, Westwood.

*ASTHENIA americana*, n. s. *Rufo-fusca, thoracis lateribus fulvis, antennis fuscis, pedibus fulvis, alis griseis.*

Body reddish brown: eyes black: palpi dull tawny: feelers brown, plumose: sides of the chest pale tawny: feet dull pale tawny, long and slender, hairy: wings gray, long, fringed, and thickly clothed with hairs. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## Section II. GALLICOLÆ.

### LASIOPTERA, Meigen.

*LASIOPTERA fusca*, *Meig. Dipt. i. 89, 2.*

a. England. From Mr. Walker's collection.

*LASIOPTERA albipennis*, Meig. Dipt. i. 88, 3.

a. England. From Mr. Walker's collection.

*LASIOPTERA argyrosticta*, Meig. Dipt. vi. 266, 9.

a. Aix la Chapelle. From Mr. Walker's collection.

*LASIOPTERA parva*, Barnston's MSS. *Rufa, thoracis disco fusco, antennis pedibusque flavis hirtis, alis griseis pilosis.*

Body dull red: disk of the chest brown: feelers and legs dull yellow, hairy: wings gray, hairy and fringed; poisers pale yellow. Length of the body  $\frac{1}{2}$  line; of the wings  $1\frac{1}{2}$  line.

a. Hudson's Bay. Presented by G. Barnston, Esq.

### CECIDOMYIA, Meigen.

*CECIDOMYIA grandis*, Meig. Dipt. i. 94, 1. Macq. Hist. Nat. Dipt. i. 159, 1, pl. 4, f. 10, 11.

a. England. From Mr. Walker's collection.

*CECIDOMYIA Klugii*, Meig. Dipt. i. 95, 3.

a. England. From Mr. Walker's collection.

*CECIDOMYIA nigra*, Meig. Dipt. i. 95, 4, t. 3, f. 11, vi. 267. Macq. Hist. Nat. Dipt. i. 161, 10. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 13, 3.

a. England. From Mr. Walker's collection.

*CECIDOMYIA lateralis*, Meig. Dipt. i. 96, 5, vi. 267. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 13, 1.

a. England. From Mr. Walker's collection.

*CECIDOMYIA cucullata*, Meig. Dipt. i. 96, 6.

a. England. From Mr. Walker's collection.

*CECIDOMYIA palustris*, Meig. Dipt. i. 96, 7, vi. 267. Macq. Hist. Nat. Dipt. i. 160, 5. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 13, 4. Blanch. Hist. Nat. An. Art. iii. 574. Tipula palustris, Linn. Syst. Nat. ii. 987, 54. Fabr. Sp. Ins. ii. 412, 65. Mant. Ins. ii. 328, 76. Ent. Syst. iv. 251, 88. Chironomus palustris, Fabr. Syst. Antl. 47, 45.

a. England. From Mr. Walker's collection.

*CECIDOMYIA nigricollis*, Meig. Dipt. i. 97, 8. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 14, 5.

a. England. From Mr. Walker's collection.



*CECIDOMYIA griseola*, Meig. *Dipt.* i. 97, 9.

a. England. From Mr. Walker's collection.

*CECIDOMYIA griseicollis*, Meig. *Dipt.* i. 97, 10.

a. England. From Mr. Walker's collection.

*CECIDOMYIA verna*, Curt. *Brit. Ent.* 178.

a. England. From Mr. Walker's collection.

*CECIDOMYIA bicolor*, Meig. *Dipt.* i. 98, 12. *Macq. Hist. Nat. Dipt.* i. 162, 17.

a. England. From Mr. Walker's collection.

*CECIDOMYIA carnea*, Meig. *Dipt.* i. 98, 13.

a. England. From Mr. Walker's collection.

*CECIDOMYIA Ribesii*, Meig. *Dipt.* i. 98, 15. *Macq. Hist. Nat. Dipt.* i. 162, 16.

a. England. From Mr. Walker's collection.

*CECIDOMYIA lutea*, Meig. *Dipt.* i. 99, 16. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 13, 2.

a. England. From Mr. Walker's collection.

*CECIDOMYIA flava*, Meig. *Dipt.* i. 99, 17.

a. England. From Mr. Walker's collection.

*CECIDOMYIA salicina*, Meig. *Dipt.* i. 100, b. *Deg. Ins.* vi. 155, 27, t. 26, f. 1—7. *Schrank. Ins. Austr.* 884. *Macq. Hist. Nat. Dipt.* i. 159, 3.

a. England. From Mr. Walker's collection.

*CECIDOMYIA spongivora*, Barnston, MSS., mas. et fem. *Nigro-fusca, pedibus fusco-fulvis, alis griseis.*

Much resembles *C. salicina*, but the legs are paler and the wings are less hairy. *Male*.—Body dark brown, hairy: feelers dark brown, moniliform, hairy, 18-jointed, shorter than the body: legs dark tawny; feet, and tips of thighs and of shanks, brown: wings gray, hairy; veins brown; poisers dark tawny, with brown knobs. *Fem*.—Somewhat paler than the male; the feelers much shorter. Length of the body  $1\frac{1}{4}$ — $1\frac{1}{2}$  line; of the wings 3— $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CECIDOMYIA extrema*. *Planetes extremus*, Walk. *Ent. Mag.* iii. 179. *Planetella extrema*, Westw. *Mod. Class. Ins. Syn.* 126.

a. England. From Mr. Walker's collection.

*CECIDOMYIA producta*, *Meig. Dipt.* vi. 267, 18. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 14, 6.

a. England. From Mr. Walker's collection.

*CECIDOMYIA pallida*, *Meig. Dipt.* vi. 270, 24.

a. England. From Mr. Walker's collection.

*CECIDOMYIA pictipennis*, *Meig. Dipt.* vi. 270, 27.

a. England. From Mr. Walker's collection.

*CECIDOMYIA variegata*, *Macq. Dipt. Nord.* i. 115, 3. *Hist. Nat.*

*Dipt.* i. 160, 6. *Meig. Dipt.* vii. 22, 34.

a. England. From Mr. Walker's collection.

*CECIDOMYIA aurantiaca*, *Macq. Dipt. Nord.* i. 116, 5. *Hist. Nat.*

*Dipt.* i. 161, 11. *Meig. Dipt.* vii. 23, 35.

a. England. From Mr. Walker's collection.

*CECIDOMYIA pygmæa*, *Macq. Dipt. Nord.* i. 116, 6. *Hist. Nat.*

*Dipt.* i. 162, 18. *Meig. Dipt.* vii. 23, 36.

a. England. From Mr. Walker's collection.

#### ANARETE, *Haliday*.

*ANARETE candidata*, *Haliday, Ent. Mag.* i. 156. *Macq. Hist. Nat.*

*Dipt.* ii. 654, 1.

a. England. From Mr. Walker's collection.

#### CAMPYLOMYZA, *Wiedemann*.

*CAMPYLOMYZA atra*, *Meig. Dipt.* i. 102, 3, vi. 271. *Gim. Bull. Soc.*

*Imp. Nat. Mosc.* 1834, 421—1846, iii. 15, 2. *Cecidomyia atra*,

*Meig. Klass. Zweif.* i. 40, 4.

a. England. From Mr. Walker's collection.

*CAMPYLOMYZA flavipes*, *Meig. Dipt.* i. 102, 1, vi. 271.

a. England. From Mr. Walker's collection.

*CAMPYLOMYZA bicolor*, *Wied. Meig. Dipt.* i. 102, 2, vi. 271. *Macq.*

*Hist. Nat. Dipt.* i. 151, 1, pl. 4, f. 2. *Gim. Bull. Soc. Imp.*

*Nat. Mosc.* iv. 344, xv. 642—1846, iii. 15, 1.

a. England. From Mr. Walker's collection.

*CAMPYLOMYZA Aceris*, *Meig. Dipt.* i. 102, 4, vi. 271. *Macq. Hist.*

*Nat. Dipt.* i. 151, 2.

a. England. From Mr. Walker's collection.

*CAMPYLOMYZA* *luculenta*, *Meig. Dipt.* vi. 271, 5.  
a. England. From Mr. Walker's collection.

*CAMPYLOMYZA* *albicornis*, *Meig. Dipt.* vi. 271, 6.  
a. England. From Mr. Walker's collection.

*CAMPYLOMYZA* *fuscipes*, *Meig. Dipt.* vi. 7.  
a. England. From Mr. Walker's collection.

### Section III. NOCTUÆFORMES.

#### PSYCHODA, *Meigen*.

##### A. Saccopteryx, *Haliday*.

*Wings with a coriaceous pouch in the middle; six external cells: feelers moniliform, verticillate.*

*PSYCHODA* *fuliginosa*, *Meig. Dipt.* i. 107, 8, vi. 272.  
a. England.

##### B. *Psychoda*.

*Wings tense; six external cells, third petiolate.*

*PSYCHODA* *auriculata*, *Haliday, Curt. Brit. Ent.* 745.  
a. England. From Mr. Walker's collection.

*PSYCHODA* *ocellaris*, *Latr. Gen. Crust.* iv. 251. *Meig. Dipt.* i. 105, 4, pl. 2, f. 14—17. *Macq. Hist. Nat. Dipt.* i. 165, 4. *Tipula hirta?* *Linn. Stew. El. Nat. Hist.* ii. 253. *Turt.* iii. 595. *Psychoda hirta*, *Lam. Anim. sans Verteb.* iii. 442, 2. *Trichoptera canescens*, *Meig. Klass. Zweif.* i. 44, 4.  
a. England. From Mr. Walker's collection.

*PSYCHODA* *tristis*, *Meig. Dipt.* vi. 272, 10. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 16, 4.  
a. England.

*PSYCHODA* *fusca*, *Macq. Dipt. Nord.* i. 4. *Hist. Nat. Dipt.* i. 165, 6.  
a. England. From Mr. Walker's collection.

*PSYCHODA* *humeralis*, *Meig. Dipt.* i. 166, 7. *Gim. Bull. Soc. Imp. Nat. Mosc.* iv. 344, xv. 642—1846, iii. 16, 3.  
a. England.

*PSYCHODA sex-punctata*, *Curt. Brit. Ent.* 745.

a. England. From Mr. Walker's collection.

*PSYCHODA trifasciata*, *Latr. Gen. Crust.* iv. 251. *Meig. Dipt.* i. 105, 3. *Macq. Hist. Nat. Dipt.* i. 165, 3. *Trichoptera trifasciata*, *Meig. Klass. Zweif.* i. 44, 3, t. 11, f. 20.

a. England. From Mr. Walker's collection.

*PSYCHODA canescens*, *Meig. Dipt.* i. 106, 5. *Macq. Hist. Nat. Dipt.* i. 165, 5. *Trichoptera canescens*, *Meig. Klass. Zweif.* i. 45, 5.

a. England.

*PSYCHODA phalænoides*, *Fabr. Syst. Antl.* 49, 1. *Lam. Anim. sans Vertéb.* iii. 441, 1. *Latr. Gen. Crust.* iv. 251. *Cons. Gén.* 442. *Meig. Dipt.* i. 104, 1. *Bouché, Nat. Ins.* 1834, S. 28, 7. *Macq. Dipt. Nord.* i. 166, 1. *Hist. Nat. Dipt.* i. 164, 1, pl. 4, f. 12, 13. *Zett. Ins. Lapp.* 824, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* vii. 421, xv. 642—1846, iii. 15, 1. *Blanch. Hist. Nat. An. Art.* iii. 575. *Tipula phalænoides*, *Linn. Syst. Nat.* ii. 977, 47. *Faun. Succ.* 1771. *Fabr. Spec. Ins.* ii. 411, 62. *Mant. Ins.* ii. 327, 73. *Ent. Syst.* iv. 251, 85. *Schrank. Ins. Austr.* 883. *Faun. Boic.* iii. 2349. *Deg. Ins.* vi. 158, 30, t. 27, f. 6—9. *Geoff. Ins.* ii. 572, 5. *Berk. Syn. Nat. Hist.* i. 162. *Stew. El. Nat. Hist.* ii. 253. *Turt.* iii. 595. *Trichoptera phalænoides*, *Meig. Klass. Zweif.* i. 43, 1.

a. England.

*PSYCHODA nervosa*, *Meig. Dipt.* i. 106, 6. *Macq. Hist. Nat. Dipt.* i. 165, 7. *Gim. Bull. Soc. Imp. Nat. Mosc.* iv. 344, vii. 421, xv. 642—1846, iii. 16, 2. *Perris, Ann. Sci. Nat. 2de Série*, xiii. 346, pl. 6, B. fig. 1—5. *Blanch. Hist. Nat. An. Art.* iii. 575. *Tipula nervosa*, *Schrank. Faun. Boic.* iii. 2350.

*PSYCHODA degenera*, n. s. *P. nervosæ simillima, at paullo minor antennisque obscurioribus.*

This species much resembles *P. nervosa*, but it is smaller, rather more hairy, and the colour of the feelers is more dull. Length of the body  $\frac{1}{2}$  line; of the wings  $1\frac{1}{4}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

# LIST OF DIPTERA.

## C. *Trichomyia*, Haliday.

*Wings with five external cells, second petiolated, third complete: brachial cells not exceeding the first third of the wing; costal cells half divided; veins very hairy: feelers long; first and second joints thick, the rest longer, somewhat conical: verves of oviscapt broad ovate.*

*PSYCHODA urbica*, Haliday, *Curt. Brit. Ent.* 745.

a. England. From Mr. Walker's collection.

## D. *Sycorax*, Haliday.

*Wings with five external cells, second petiolated, fifth incomplete; three costal cells, two brachial, extending to the middle of the wing; veins only pubescent: body nearly naked: feelers slender, pubescent; first joint very short, second globose, the rest linear.*

*PSYCHODA silacea*, Haliday, *Curt. Brit. Ent.* 745, 10.

a. England. From Mr. Walker's collection.

## Section IV. ROSTRATÆ.

### ERIOPTERA, Meigen.

#### A. A discoidal cell.

*ERIOPTERA maculata*, Meig. *Dipt.* i. 109, 1. *Macq. Hist. Nat. Dipt.* i. 110, 1.

a. England. From Mr. Walker's collection.

*ERIOPTERA cinerascens*, Meig. *Dipt.* i. 114, 15. *Zett. Ins. Lapp.* 831, 11. *Macq. Hist. Nat. Dipt.* i. 110, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* vii. 421—1846, iii. 19, 7.

a. England. From Mr. Walker's collection.

#### A A. No discoidal cell.

##### a. All the veins hairy.

##### B. The two basal cells of equal length.

*ERIOPTERA flavescens*, Meig. *Dipt.* i. 109, 2. *Zett. Ins. Lapp.* 830, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* iv. 344, xv. 642—1846,

iii. 16, 1. *Tipula flavescens*, Linn. *Syst. Nat.* ii. 973, 19. *Faun. Suec.* 175, 3. *Fabr. Spec. Ins.* ii. 405, 27. *Mant. Ins.* ii. 324, 31. *Ent. Syst.* iv. 242, 37. *Syst. Antl.* 31, 37. *Gmel. Syst. Nat.* v. 2817, 19. *Geoff. Ins.* ii. 556, 7. *T. lutea*, *Gmel. Syst. Nat.* v. 2819, 87. *Limonia flavescens*, Lam. *Anim. sans Verteb.* iii. 445, 4.

a. England. From Mr. Walker's collection.

b. Hammerfest, Finmark. From Mr. Walker's collection.

*ERIOPTERA lutea*, Meig. *Dipt.* i. 110, 3. *Zett. Ins. Lapp.* 820, 2. *Macq. Hist. Nat. Dipt.* i. 110, 3. *Gim. Bull. Soc. Imp. Nat. Mosc.* xv. 642—1846, iii. 17, 2.

a. England. From Mr. Walker's collection.

b. Hammerfest, Finmark. From Mr. Walker's collection.

*ERIOPTERA montana*, Meig. *Dipt.* i. 110, 4.

a. England. From Mr. Walker's collection.

*ERIOPTERA tænionota*, Wied. Meig. *Dipt.* i. 111, 5. *Macq. Hist. Nat. Dipt.* i. 110, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* iv. 344, xv. 542—1846, iii. 17, 3.

a. England. From Mr. Walker's collection.

*ERIOPTERA lineata*, Meig. *Dipt.* i. 111, 7. *Macq. Hist. Nat. Dipt.* i. 111, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 18, 5.

a. England. From Mr. Walker's collection.

*ERIOPTERA fuscipennis*, Meig. *Dipt.* i. 111, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* vii. 421—1846, iii. 18, 4.

a. England. From Mr. Walker's collection.

*ERIOPTERA trivialis*, Hoffmannsegg. Meig. *Dipt.* i. 112, 8. *Macq. Hist. Nat. Dipt.* i. 111, 7, pl. 2, f. 13. *Blanch. Hist. Nat. An. Art.* iii. 570.

a. England. From Mr. Walker's collection.

B B. *Internal basal cell much shorter than the external.*

*ERIOPTERA grisea*, Meig. *Dipt.* i. 12, 9. *Macq. Hist. Nat. Dipt.* i. 111, 9.

a. England. From Mr. Walker's collection.

*ERIOPTERA obscura*, Meig. *Dipt.* i. 113, 12. *Macq. Hist. Nat. Dipt.* i. 112, 11.

a. England. From Mr. Walker's collection.

*ERIOPTERA cœbracea*, *Hoffmansegg, Meig. Dipt. i. 114, 13. Macq. Hist. Nat. Dipt. i. 112, 12.*

a. England. From Mr. Walker's collection.

*ERIOPTERA nodulosa*, *Macq. Dipt. Nord. i. 108, 5. Hist. Nat. Dipt. i. 111, 8. Meig. Dipt. vii. 20. E. Hederæ, Curt. Brit. Ent. 557.*

a. England. From Mr. Walker's collection.

*ERIOPTERA varia*, *Hoffmansegg, Meig. Dipt. i. 115, 16.*

a. England. From Mr. Walker's collection.

*ERIOPTERA murina*, *Meig. Dipt. i. 113, 11.*

a. England. From Mr. Walker's collection.

*ERIOPTERA pygmaea* *Macq. Dipt. du Nord. 108, 8. Hist. Nat. Dipt. i. 112, 13. Meig. Dipt. vii. 24, 22.*

a. England. From Mr. Walker's collection.

*ERIOPTERA atra*, *Meig. Dipt. i. 113, 10. Zett. Ins. Lapp. 830, 6. Macq. Hist. Nat. Dipt. i. 112, 10. Gim. Bull. Soc. Imp. Nat. Mosc. vii. 421, xv. 642—1846, iii. Tipula atra, Fabr. Syst. Antl. 33, 45. Limonia atra, Latr. Gen. Crust. 259. Cons. Gén. 442. Meig. Klass. Zweif. i. t. 3, f. 8, 9. Molophilus brevipennis, Curt. Brit. Ent. 444.*

a. England. From Mr. Walker's collection.

b. France?

c. Hammerfest, Finmark. Presented by the Entomological Club.

*ERIOPTERA analis*, *Zett. Ins. Lapp. 830, 8.*

a. England. From Mr. Walker's collection.

a a. *Tips of the veins hairy.*

*ERIOPTERA imbuta*, *Wied. MSS. Meig. Dipt. i. 114, 14.*

a. England. From Mr. Walker's collection.

### *PEDICIA, Latreille.*

*Limnobia*, Div. A, *Meigen.*

*PEDICIA rivosâ*, *Latr. Gen. Crust. iv. 255. Cons. Gén. 379, 442. Meig. Klass. Zweif. 62, 23, t. 3, f. 14. Macq. Hist. Nat. Dipt. i. 92, 1. Gim. Bull. Soc. Imp. Nat. Mosc. iv. 344, xv. 642—1846, iii. 19, 1. Blanch. Hist. Nat. An. Art. iii. 568. Tipula rivosâ, Linn. Faun. Suec. 1738. Gmel. Syst. Nat. v. 2812, 2.*

*Encycl. pl.* 384, f. '11. *Stew. El. Nat. Hist.* ii. 250. *T. triangularis*, *Fabr. Sp. Ins.* ii. 402, 9. *Mant. Ins.* ii. 322, 9. *Ent. Syst.* iv. 236, 10. *Syst. Antl.* 27, 14. *Gmel. Syst. Nat.* v. 2813, 111. *Deg. Ins.* vi. 134, 2, t. 19, f. 1. *Stew. El. Nat. Hist.* ii. 250. *Turt.* iii. 585. *Limnobia rivosa*, *Meig. Dipt.* i. 118, 1, t. 4, f. 14, vii. 15. *Zett. Ins. Lap.* 832, 1.

a. England.

*PEDICIA gracilis*, n. s., fem. *Fulva, albo et fusco varia, antennis fuscis, pedibus nigro-fuscis, alis albo-griseis, fusco bivittatis.*

Head white: eyes black: mouth tawny: palpi black: feelers brown, shorter than the chest, slightly pectinated on both sides for about half their length: chest brown, with three dull white stripes, and having a broad white stripe on each side: breast white: abdomen whitish tawny, ferruginous at the tip, and having a broad brown stripe along the back: legs very dark brown: wings gray in the hinder half, brown in the fore half, where they have two very large longitudinal white spots separated by a narrow brown interval, and extending together from the tip to beyond the middle of the wing; veins and poisers brown. Length of the body 16 lines; of the wings 24 lines.

a. ———

*PEDICIA albivitta*, n. s., mas et fem. *Albo fulvoque varia, abdomine griseo vittata, antennis pedibusque fulvis, femoribus tibiisque apice fuscis, alarum triangulis petiolatis.*

*Male*.—Head white, with a tawny stripe on each side of the eyes, which are bronze colour: feelers tawny, hardly longer than the head: palpi brown: chest white; shield with four tawny stripes, the inner pair close and parallel to each other, in advance of the other two, which are paler; there is a semicircular tawny spot behind these stripes; scutcheon tawny behind, and having a large brown lobe on each side: hind chest dark brown on the disk, tawny along the border, and with a white spot in front and one on each side: breast white: abdomen bright tawny, with a gray stripe on the back, and on each side a white stripe, which is widened towards the hind border of each segment: legs tawny, pubescent; tips of the thighs and of the shanks brown; shanks darker than the thighs, paler than the feet: wings like those of *P. rivosa*, but the lower side of the triangle of brown stripes does not cease at the angle, but is continued without diminution to the hind border of the wing; the veins also are paler, and the little pentagonal cell is smaller than in *P. rivosa*; poisers pale yellow. *Fem*.—Abdomen white, with the exception of a large obconical gray spot on each segment; this spot



has a black border, which is again surrounded by a bright tawny border: legs dark brown; thighs, except their tips, yellow. Length of the body 12—14 lines; of the wings 22 lines.

a. North America. Presented by the Entomological Club.

b. North America. From Mr. Children's collection.

c. Nova Scotia. From Lieut. Redman's collection.

*PEDICIA contermina*, n. s., fem. *Præcedenti simillima, abdomine latiore, alarum triangulis non petiolatis.*

Like *P. albivitta*, but the side stripes of the chest are broader: the abdomen also is broader, and is whitish tawny, with a bright tawny band across the borders of each segment; the latter has also a large irregular brown spot, which occupies most of its disk: the brown stripe on the wing is not prolonged beyond the angle; the poisers are pale tawny, with a brown stripe on each side. Length of the body 14 lines; of the wings 24 lines.

a. Nova Scotia. From Lieut. Redman's collection.

### LIMNOBIA, Meigen.

Div. C. Meig. *Dipt. pl.* 4, f. 16.

*LIMNOBIA fasciata*, Meig. *Dipt.* i. 121, 4. *Zett. Ins. Lapp.* 832, 2. *Tipula fasciata*, Linn. *Syst. Nat.* ii. 973, 18. *Gmel. Ed. Syst. Nat.* 2816, 18. *Fabr. Sp. Ins.* ii. 405, 24. *Mant. Ins.* ii. 223, 26. *Ent. Syst.* iv. 240, 32. *Syst. Antl.* 30, 31. *Limnobia pulchella*, Winth. Meig. *Dipt.* vi. 275, 66. *Idioptera maculata*, Macq. *Hist. Nat. Dipt.* i, 94, 1, pl. 2, f. 3, 4. *I. pulchella*, Haliday, *Ann. Nat. Hist.* 1839, 184. *Limnophila fasciata*, Gim. *Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 21, 7.

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

*LIMNOBIA marmorata*, Hoffmansegg, Meig. *Dipt.* i. 121, 5. *Zett. Ins. Lapp.* 833, 3. *Limonia maculata*, Meig. *Klass. Zweif.* i. 61, 20. *Limnophila marmorata*, Gim. *Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 20, 3.

a. England. From Mr. Walker's collection.

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Div. D. *Meig. Dipt. pl. 4, f. 15.*

*LIMNOBIA punctata*, *Meig. Dipt. i. 122, 6. Gim. Bull. Soc. Imp. Nat. Mosc. xv. 642, 661. Limnophila punctata, Macq. Hist. Nat. Dipt. i. 96, 3. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 20, 4.*

a. England. From Mr. Walker's collection.

b. France.

*LIMNOBIA substituta*, n. s. *Fulva, thoracis disco obscuriore, pedibus flavis, tarsis apice nigris, alis subgriseis, vittis limpidis punctisque plurimis fuscis, marginibus anticis maculis fuscis obscurioribus.*

Very nearly allied to *L. punctata*. Body tawny: feelers and mouth dull tawny: eyes bronze colour: disk of the chest brownish tawny: legs yellow, hairy; tips of the feet black: wings slightly gray, striped with indistinct colourless lines; veins dotted with small brown spots; the fore borders adorned with larger and darker spots, which are more or less confluent; poisers tawny; their tips rather darker. Length of the body 4 lines; of the wings 8 lines.

a. China. Presented by G. T. Lay, Esq.

*LIMNOBIA geniculata*, *Hoffmansegg, Meig. Dipt. i. 124, 9. Quatb. Zeitsch. ii. S. 15. Limnophila geniculata, Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 21, 6.*

a. England.

b. France.

*LIMNOBIA vicaria*, *Walker, Ent. Mag. ii. 469.*

a. New Holland. Presented by J. Hunter, Esq.

*LIMNOBIA picta*, *Meig. Dipt. i. 123, 7. Zett. Ins. Lapp. 833, 5. Gim. Bull. Soc. Imp. Nat. Mosc. vii. 129, xv. 642. Tipula picta, Fabr. Ent. Syst. Suppl. 550, 80. Syst. Antl. 29, 28. T. ocellaris, Schrank. Ins. Austr. 856. Limonia picta, Lam. Anim. sans Verteb. iii. 445, 2. Limnobia ocellaris, Curt. Brit. Ent. 50. Guer. Icon. Regn. Anim. Ins. pl. 92, f. 9. Gim. Bull. Soc. Imp. Nat. Mosc. xv. 642, 661. Limnophila picta, Macq. Hist. Nat. Dipt. i. 97, 6. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 20, 5. Blanch. Hist. Nat. An. Art. iii. 569.*

a. England.

b. France.

*LIMNOBIA obsoleta*, *Hoffmansegg, Meig. Dipt. i. 124, 10.*

a. England. From Mr. Walker's collection.

## Div. E. Meig. Dipt. pl. 6, f. 2.

*LIMNOBIA adjuncta*, n. s., mas. *Cana, capite postico, antennisque flavis, his apice fuscis, thorace fulvo trivittato, abdomine pedibusque fulvis, tarsis apice fuscis, alis subfuscis.*

Body hoary: head yellow behind: feelers yellow, brown towards the tips, not longer than the head: mouth brown: eyes black: chest with three tawny stripes: abdomen tawny: legs tawny: tips of feet brown: wings very slightly tinged with brown; veins and brands brown; poisers pale yellow, their tips darker. Length of the body 3 lines; of the wings 7 lines.

a. England. From Mr. Walker's collection.

## Div. D.\*

*LIMNOBIA macrocera*, Say, *Journ. Acad. Phil.* iii. 20, 2. Wied. *Auss. Zweif.* i. 34, 19.

a. Nova Scotia. From Lieut. Redman's collection.

## Div. E. Meig. Dipt. pl. 6, f. 2.

*LIMNOBIA lucorum*, Meig. Dipt. i. 125, 12. *Gim. Bull. Soc. Imp. Nat. Mosc.* xv. 642. *Limnophila lucorum*, Macq. *Hist. Nat. Dipt.* i. 99, 16. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 22, 8.

a. England. From Mr. Walker's collection.

*LIMNOBIA discicollis*, Megerle, Meig. Dipt. i. 125, 13. Macq. Dipt. du Nord. i. 149, 7. Zett. *Ins. Lapp.* 833, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* iv. 344, xv. 642. *Limnophila discicollis*, Macq. *Hist. Nat. Dipt.* i. 99, 18, pl. 2, f. 5, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 22, 9.

a. England. From Mr. Walker's collection.

*LIMNOBIA placida*, Meig. Dipt. vi. 275, 67.

a. England. From Mr. Walker's collection.

## Div. F. Meig. Dipt. pl. 6, f. 3.

*LIMNOBIA nemoralis*, Meig. Dipt. i. 126, 15. *Limnophila nemoralis*, Macq. *Hist. Nat. Dipt.* i. 99, 14. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, iii. 23, 10.

a. England. From Mr. Walker's collection.

*LIMNOBIA leucophæa*, *Hoffmansegg, Meig. Dipt. i. 127, 16. Zett. Ins. Lapp. 835, 11.*

a. England. From Mr. Walker's collection.

*LIMNOBIA tarda*, n. s., mas. et fem. *Grisea, thoracis lateribus canis, antennis pedibusque nigris, femoribus basi coxisque fulvis, alis griseis, venis transversis griseo nebulosis.*

Body gray: eyes and feelers black; the latter much longer than the chest: chest hoary on each side before the insertion of the wings: legs black; thighs towards the base and hips tawny: wings gray; brands dark gray; veins black; cross veins clouded with gray; poisers tawny, with brown knobs. Length of the body 3 lines; of the wings 7 lines.

a. England. From Mr. Walker's collection.

*LIMNOBIA inclusa*, n. s., mas. *Fulva, capite thoracisque disco griseis, antennis nigris, pedibus fulvis, alis subfulvis.*

Body tawny: head and disk of chest gray: eyes and feelers black; the latter tawny at the base, and a little longer than the head: legs tawny, pubescent; shanks darker than the thighs, paler than the feet: wings slightly tawny; veins brown; brands none; poisers pale yellow, darker at the tips. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

Div. G. *Meig. Dipt. pl. 4, f. 20.*

*LIMNOBIA fulvescens*, *Hoffmansegg, Meig. Dipt. i. 127, 18.*

a. England. From Mr. Walker's collection.

*LIMNOBIA ferruginea*, *Meig. Dipt. i. 128, 19. Limonia flavescens, Latr. Gen. Crust. iv. 259. Meig. Klass. Zweif. i. 56, 8. Limnophila ferruginea, Macq. Hist. Nat. Dipt. i. 97, 9.*

a. England. From Mr. Walker's collection.

*LIMNOBIA punctum*, *Meig. Dipt. i. 128, 20.*

a. England. From Mr. Walker's collection.

*LIMNOBIA lineola*, *Meig. Dipt. i. 128, 21. Gim. Bull. Soc. Imp. Nat. Mosc. vii. 421. Limnophila lineola, Macq. Hist. Nat. Dipt. i. 98, 10. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 23, 11.*

a. England. From Mr. Walker's collection.

*LIMNOBIA dispar*, *Megerle, Meig. Dipt. i. 129, 22.* *Limnophila dispar*, *Macq. Hist. Nat. Dipt. i. 98, 11.*  
*a. England. From Mr. Walker's collection.*

*LIMNOBIA nigrina*, *Meig. Dipt. vi. 277, 71.*  
*a. England. From Mr. Walker's collection.*

*Div. H. Meig. Dipt. pl. 6, f. 4.*

*LIMNOBIA littoralis*, *Meig. Dipt. i. 131, 26.* *Macq. Hist. Nat. Dipt. ii. 653, 30.* *Quatbr. Zeitsch. ii. 2, 51, 15.* *Gim. Bull. Soc. Imp. Nat. Mosc. xv. 642—1846, iii. 24, 14.*  
*a. England.*

*LIMNOBIA straminea*, *Meig. Dipt. vii. 28, 88.*  
*a. England. From Mr. Walker's collection.*

*LIMNOBIA congrua*, *n. s.* *Fulva, thorace fusco trivittato, abdomine fusco fasciato, antennis fuscis, pedibus fulvis, coxis femoribusque basi pallidis, alis subfulvis.*

Body tawny: eyes bronze colour: feelers and palpi brown, the former yellow at the base: chest with three brown stripes, the middle one broad and long: hind borders of the segments of the abdomen brown, and this colour occupies the whole of the segments towards the tip, except the last, which, with its appendages, is bright tawny: legs dull tawny; hips and base of the thighs pale tawny: wings with a very slight tawny tinge; veins brown; poisers whitish yellow, their knobs darker. Length of the body 4 lines; of the wings 9 lines.

*a. Swan River. Presented by Dr. Richardson.*

*Div. I. Meig. Dipt. pl. 5, f. 5.*

*LIMNOBIA distinctissima*, *Wiedemann, Meig. Dipt. i. 131, 27.* *Zett. Ins. Lapp. 835, 13.* *Cylindrotoma distinctissima*, *Macq. Hist. Nat. Dipt. i. 107, 1, pl. 2, f. 15, 16.* *Blanch. Hist. Nat. An. Art. iii. 570.*  
*a. Scotland. From Mr. Walker's collection.*

*LIMNOBIA acrostacha*, *Wied. Dipt. Exot. i. 14, 4.* *L. Diana*, *Macq. Hist. Nat. Ins. Dipt. i. 107, 29.* *Cylindrotoma acrostacha*, *Macq. Dipt. Exot. i. 68, t. 9, f. 1.*  
*a. Bengal?*

## Div. K. Meig. Dipt. pl. 5, f. 6.

*LIMNOBIA fimbriata*, Meig. Dipt. i. 132, 28. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, 24, 15.

a. England. From Mr. Walker's collection.

## Div. L. Meig. Dipt. pl. 5, f. 4.

*LIMNOBIA vagans*, n. s., fem. *Grisea, pectore abdomineque fulvis, antennis nigris, pedibus fulvis femoribus tibiisque apice tarsisque fuscis, alis subgriseis, stigmatе fusco.*

Body slender: head and chest gray: feelers black, a little longer than the head, tawny at the base: eyes black: breast and abdomen tawny: legs dark tawny; feet, and tips of thighs and of shanks, brown: wings slightly gray; veins and brands brown; poisers pale yellow, their knobs darker. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. England. From Mr. Walker's collection.

*LIMNOBIA remota*, n. s., mas. *Flava, abdomine fulvo, antennis apice fuscis, pedibus fulvis, tibiis apice tarsisque fuscis, alis limpidis.*

Body yellow: eyes black: feelers yellow, brown towards the tips, a little shorter than the chest: abdomen tawny, darker towards the tip: legs tawny; feet and tips of the shanks brown: wings colourless; veins brown; brands none, poisers yellow, their tips darker. Length of the body 3 lines; of the wings 7 lines.

a. England. From Mr. Walker's collection.

*LIMNOBIA ignota*, n. s., fem. *Fulva, capite et thorace flavis, thoracis disco fulvo griseo vittato, antennis flavis, pedibus fulvis, tibiis apice tarsisque fuscis, alis subfulvis.*

Body tawny: head and chest pale yellow; disk of the latter tawny, with a gray stripe in the middle: feelers yellow, darker towards the tips, not much longer than the head: legs tawny; tips of the shanks and of the feet brown: wings with a slight tawny tinge; veins darker tawny; poisers yellow, with tawny knobs. Length of the body 4 lines; of the wings 9 lines.

a. England. From Mr. Walker's collection.

Div. N. *Meig. Dipt. pl. 6, f. 5.*

*LIMNOBIA lutea*, *Meig. Dipt. i. 133, 31. Macq. Hist. Nat. Dipt. i. 101, 2. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, 25, 17. Blanch. Hist. Nat. An. Art. iii. 569. Furcomyia lutea, Megerle.*

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

*LIMNOBIA modesta*, *Wied. Meig. Dipt. i. 134, 32. Macq. Hist. Nat. Dipt. i. 101, 3. Zett. Ins. Lapp. 836, 15. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 2, 25, 18. Dicronomyia modesta, Stephens.*

a. England. From Mr. Walker's collection.

*LIMNOBIA mitis*, *Meig. Dipt. vi. 278, 75.*

a. England. From Mr. Walker's collection.

*LIMNOBIA chorea*, *Wied. Meig. Dipt. i. 134, 33. Macq. Hist. Nat. Dipt. i. 102, 6. Unomyia chorea, Megerle.*

a. England. From Mr. Walker's collection.

*LIMNOBIA inusta*, *Meig. Dipt. i. 135, 34. Macq. Hist. Nat. Dipt. i. 101, 4.*

a. England. From Mr. Walker's collection.

*LIMNOBIA didyma*, *Meig. Dipt. i. 135, 35. Macq. Hist. Nat. Dipt. i. 102, 8.*

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

*LIMNOBIA leucocephala*, *Meig. Dipt. i. 136, 37. Macq. Hist. Nat. Dipt. i. 103, 10.*

a. England. From Mr. Walker's collection.

*LIMNOBIA maculipennis*, *Hoffmansegg. Meig. Dipt. i. 136, 38. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, 26, 20.*

a. England. From Mr. Walker's collection.

*LIMNOBIA nebulosa*, *Zett. Ins. Lapp. 836, 16.*

a. England. From Mr. Walker's collection.

*LIMNOBIA gracilis*, *Haliday, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

*LIMNOBIA ehorica*, *Haliday, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

*LIMNOBIA ægotans*, Haliday, Zool. Voy. Erebus and Terror.

a. New Zealand. Presented by Dr. A. Sinclair.

*LIMNOBIA tessellata*, Haliday, Zool. Voy. Erebus and Terror.

*LIMNOBIA fumipennis*, White. Haliday, Zool. Voy. Erebus and Terror.

a. New Zealand. From Mr. Earl's collection.

*LIMNOBIA antarctica*. *Gonomyia antarctica*, Walker, Linn. Trans.

a. Port Famine. Presented by the Entomological Club.

*LIMNOBIA Argus*, Say, Long's Exped. to St. Peter's River, App. 358. Wied. Auss. Zweif. i. 33, 17.

a. Nova Scotia. From Lieut. Redman's collection.

*LIMNOBIA reperta*, n. s., fem. *Nigro-grisea, abdominis apice fulvo, antennis pedibusque nigris, femoribus basi coxisque flavis, alis subgriseis.*

Body grayish black: eyes and feelers black, the latter much longer than the head: tip of the abdomen tawny: legs black; thighs towards the base and hips yellow: wings slightly gray; veins brown; brands pale brown; poisers yellow, with dark brown knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. Alten, Finmark. From Mr. Walker's collection.

b. Hammerfest. From Mr. Walker's collection.

*LIMNOBIA simulans*, n. s. *Flava, thoracis disco fusco trivittato lateribus fusco variis, abdomine ferrugineo, basi lateribus et metathorace griseis, pedibus flavis, femoribus tibiis tarsisque apice nigris, alis limpidis punctis plurimis fuscis, marginibus fusco maculatis.*

Body pale yellow: feelers and palpi brown: eyes bronze colour: chest with three broad brown stripes; the middle stripe extending to the head and forked in front: sides of the chest varied with brown: hind chest gray: abdomen ferruginous; its sides and base gray: legs yellow, long and slender; tips of the thighs, of the shanks, and of the feet, black; shanks and feet darker than thighs: wings colourless, adorned with numerous little round brown spots, and also with some large irregular marks, of which five are along the fore border, and three along the hind border; poisers pale yellow, with black tips. Length of the body 3 lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.



*LIMNOBIA badia*, n. s., fem. *Fulva, capite antennisque nigris, thorace fusco univittato et bimaculato, abdomine fusco fulvo cincto, pedibus fulvis, tarsis fuscis, alis subgriseis, venis transversis fusco marginatis.*

Body tawny: head and its appendages black: eyes bronze colour: chest with three bright brown marks, the middle one forming a long and narrow stripe, and placed in advance of the other two, which are nearly round: abdomen brown; hind borders of the segments tawny; last segment and its appendages bright tawny: legs tawny, pubescent; shanks darker than the thighs; feet brown: wings slightly gray; veins dark brown; cross veins bordered with brown; points tawny, with brown tips. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

a. Near *Scotia*. From Lieut. Redman's collection.

Div. O. *Meig. Dipt. pl. 4, f. 13.*

*LIMNOBIA tripunctata*, *Meig. Dipt. i. 138, 41. Macq. Hist. Nat. Dipt. i. 103, 13, pl. 2, f. 7, 8. Zett. Ins. Lapp. 837, 18. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, 2, 27, 22. Tipula tripunctata, Fabr. Sp. Ins. ii. 405, 26. Ent. Syst. iv. 241, 36. Syst. Antl. 31, 36. Gmel. Syst. Nat. v. 2817, 71. Tipula (phragmitidis), Schrank. Ins. Austr. 860.*

a. England. From Mr. Walker's collection.

*LIMNOBIA sexpunctata*, *Meig. Dipt. i. 139, 42. Macq. Hist. Nat. Dipt. i. 103, 14. Tipula sexpunctata, Fabr. Sp. Ins. ii. 405, 25. Ent. Syst. iv. 241, 34. Syst. Antl. 30, 33. Gmel. Ed. Syst. Nat. v. 2816, 69. Limonia sexpunctata, Latr. Gen. Crust. iv. 259. Cons. Gén. 442. Lam. Anim. sans Vertéb. iii. 445, 3. Meig. Klass. Zweif. i. 59, 15, t. 3, f. 15.*

a. England. From Mr. Walker's collection.

*LIMNOBIA nubeculosa*, *Meig. Dipt. i. 140, 44. Macq. Hist. Nat. Dipt. i. 104, 16. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 2, 27, 23. Tipula &c. ? Deg. Ins. vi. 135, 5.*

a. England. From Mr. Walker's collection.

*LIMNOBIA sera*, n. s., mas. *Fulva, thorace abdomineque fusco vittatis, antennis nigris, pedibus fulvis, femoribus tibiisque apice tarsisque fuscis, alis limpidis.*

Body tawny: feelers black, tawny at the base: eyes black: a brown stripe on the chest, and on the abdomen another, which ceases before the tip: legs tawny; feet, and tips of thighs and of

shanks, brown : wings colourless ; brands none ; veins brown ; poisers yellow, with brown knobs. Length of the body  $2\frac{1}{2}$  lines ; of the wings 5 lines.

a. England. From Mr. Walker's collection.

Div. P. Meig. Dipt. pl. 4, f. 18.

LIMNOBIA xanthoptera, Meig. Dipt. i. 141, 46. Macg. Hist. Nat. Dipt. i. 104, 17. Gm. Bull. Soc. Imp. Nat. Mosc. 1846, 2, 27, 24.

a. England. From Mr. Walker's collection.

b. France. From Mr. Walker's collection.

LIMNOBIA quadrimaculata, Meig. Dipt. i. 151, 64. Tipula 4-maculata, Linn. Faun. Suec. 1736. Fabr. Sp. Ins. ii. 400, 4. Ent. Syst. iv. 234, 4. Syst. Antl. 19, 4. Gmel. Syn. Nat. v. 2812, 3. Ctenophora 4-maculata, Fabr. Syst. Antl. 19, 4. Limnobia 4-notata, Meig. Dipt. i. 144, 51.

a. England. From Mr. Walker's collection.

Div. Q. Meig. Dipt. pl. 6, f. 6.

LIMNOBIA excisa, n. s., fem. Fulva, thoracis disco fusco, pedibus pallide fulvis, tursis obscurioribus, alis limpidis.

Body tawny : eyes black : disk of the chest brown : legs pale tawny ; feet darker : wings colourless ; veins brown ; brands none ; poisers tawny, with brown knobs. Length of the body  $2\frac{1}{2}$  lines ; of the wings 7 lines.

a. Alten, Finmark. From Mr. Walker's collection.

LIMNOBIA intermedia, n. s., mas. Flava, thorace fusco vittato, abdomine fusco fasciato, antennis pedibusque fuscis, femoribus flavis apice fuscis, alis limpidis, stigmatibus fuscis.

Body yellow : mouth and feelers brown ; the former about twice the length of the latter, and somewhat less than half the length of the body : eyes black : a broad pale brown stripe on the back of the chest : hind borders of the abdominal segments brown : legs brown, long and slender ; thighs yellow, with brown tips : wings colourless, each having a pale brown spot near the tip of its fore border ; veins brown ; poisers yellow, with brown tips. Length of the body  $2\frac{1}{2}$  lines ; of the wings 5 lines.

a. Jamaica. From Mr. Gosse's collection.

Div. R. *Meig. Dipt. pl. 6, f. 7.*

*LIMNOBIA tenella*, *Meig. Dipt. i. 146, 54. Macq. Hist. Nat. Dipt. i. 106, 25. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, 2, 30, 31.*  
a. England. From Mr. Walker's collection.

*LIMNOBIA disjuncta*, n. s., mas. *Fulva, thoracis disco abdominisque dorso griseis, antennis nigris, pedibus fulvis, tibia apice tarsisque fuscis, alis subgriseis.*

Body tawny: feelers and palpi black, tawny at the base; the former much longer than the head: eyes black: disk of the chest gray: abdomen gray above: legs dark tawny; feet and tips of the shanks dark brown: wings slightly gray; veins black; brands brown; poisers pale yellow, their knobs darker. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. England. From Mr. Walker's collection.

Div. T. *Meig. Dipt. pl. 5, f. 7.*

*LIMNOBIA punctipennis*, *Meig. Dipt. i. 147, 56, t. 5, f. 2, 3, 7.*  
*Limonia hybrida*, *Meig. Klass. Zweif. i. 57, 12. Helobia punctipennis*, *St. Farg. Encyc. x. 585. Macq. Hist. Nat. Dipt. pl. 2, f. 11, 12. Symplecta punctipennis*, *Meig. Dipt. vi. 283, 1. Zett. Ins. Lapp. 838, 1. Macq. Hist. Nat. Dipt. i. 109, 1. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, 2, 32, 2. Blanch. Hist. Nat. An. Art. iii. 570.*

a. England. From Mr. Walker's collection.

*LIMNOBIA stictica*, *Meig. Dipt. i. 148, 57. Symplecta stictica*, *Meig. Dipt. vi. 283, 2. Zett. Ins. Lapp. 839, 2. Macq. Hist. Nat. Dipt. i. 109, 2. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, 2, 31, 1.*

a. England. From Mr. Walker's collection.

*LIMNOBIA cana*, n. s., mas. *Cana, thorace fusco trivittato, abdomine subtus ferrugineo, antennis piceis, pedibus nigris, femoribus fulvis apice piceis, alis subgriseis, venis transversis nebulosis.*

Body hoary: eyes black: feelers and palpi piceous; the former beset with a few hairs, and having fifteen (?) globose joints: chest with three brown stripes: under-side of abdomen ferruginous: legs black, long and slender; thighs tawny, piceous towards their tips:

wings slightly gray; veins brown; cross veins clouded; poisers yellow, with gray tips. Length of the body 2 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

The first longitudinal vein is more undulating than in the wings of *L. punctipennis*, and it also differs from that species in having the little vein within the fork of the third longitudinal vein, with the upper branch of its fork much nearer the tip than its lower fork, whereas the reverse of this structure is characteristic of *L. punctipennis*: the lower branch of the first fork of the fifth longitudinal vein is also forked; and a third fork occurs in the upper branch of the second; and lastly, the short cross vein which connects the two divisions of this third fork in *L. cana* is wanting in *L. punctipennis*.

Div. U. Meig. Dipt. pl. 5, f. 8.

*LIMNOBIA immaculata*, Meig. Dipt. i. 148, 58. Gim. Bull. Soc. Imp. Nat. Mosc. iv. 344, xv. 642. *Limnophila immaculata*, Macq. Hist. Nat. Dipt. i. 100, 20. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, iii. 23, 13. *Tryaphona immaculata*, Zett. Ins. Lapp. 852, 1.

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

*LIMNOBIA exclusa*, n. s. *Fulva*, thorace fusco trivittato, pedibus fulvis, tarsis fuscis, alis limpidis.

Body tawny, slender: eyes black: disk of chest with three brown stripes, the middle one broad: legs tawny; shanks darker than the thighs; feet brown: wings colourless; veins brown; brands pale brown; poisers yellow. Length of the body 3 lines; of the wings 8 lines.

a. Alten, Finmark. From Mr. Walker's collection.

Div. W. Meig. Dipt. i. pl. 65, f. 4.

*LIMNOBIA occulta*, Meig. Dipt. vi. 279, 79.

a. England. From Mr. Walker's collection.

*LIMNOBIA reciproca*, n. s. *Cinerea, thorace fusco trivittato, abdomine nigro-fusco fulvo marginato et fasciato, antennis fuscis, pedibus fulvis, femoribus et tibiis apice tarsisque fuscis, alis subcinereis.*

Body gray: feelers and mouth brown, the former tawny at the base: eyes dark red: disk of the chest inclining to brown, and adorned with three narrow dark brown stripes: abdomen very dark brown; sides and hind borders of the segments tawny: sexual parts tawny: legs hairy, dull tawny; tips of the thighs, of the shanks and of the feet, brown: wings slightly tinged with gray; veins brown; poisers pale tawny, with darker tips. Length of the body  $3\frac{1}{2}$  lines; of the wings 9 lines.

a. Monte Video. Presented by C. Darwin, Esq.

#### Div. X.

*LIMNOBIA pilipes*, Meig. *Dipt.* i. 150, 61. *Tipula pilipes*, Fabr. *Ent. Syst.* iv. 242, 39. *Syst. Antl.* 32, 41. *Gmel. Syst. Nat.* v. 2817, 72.

a. England.

*LIMNOBIA hirtipes*, n. s. *Nigra, capite thoracisque lateribus flavis, thoracis suturis fulvis, abdomine flavo marginato et fasciato, antennis fuscis, pedibus fulvis, femoribus tibiis tarsisque apice nigris, alis subfuscis.*

Very nearly allied to *L. pilipes*, but having more slender legs and paler wings. Body black: head, sides of the chest and of the abdomen, and the hind borders of the abdominal segments, chiefly yellow: eyes black: feelers and palpi brown, the former tawny at the base: sutures of the chest and sexual parts tawny: legs tawny, hairy; tips of the thighs and of the shanks black; feet also black towards the tips: wings slightly brown; veins brown; poisers tawny, with brown tips. Length of the body  $3\frac{1}{2}$  lines; of the wings 10 lines.

a. Swan River. Presented by Dr. Richardson.

#### Div. Y.

*LIMNOBIA sexguttata*, Haliday. *Dale, Ann. Nat. Hist.* viii. 431.  
a. England. Presented by A. H. Haliday, Esq.

Di. 2.

**LIMNOBIA unicolor.** *Geranomyia unicolor, Haliday, Ent. Mag. i. 155. Curt. Brit. Ent. 573. Macq. Hist. Nat. Dipt. ii. 652, 1. G. maculipennis, Curt. Brit. Ent. 573.*  
a. England. From Mr. Walker's collection.

Div. A A.

The first and the second longitudinal veins from the hind border of the wing are simple; the third has a short, straight and upright cross vein, that joins the middle of the areolet on the fourth; the fourth has two short upright cross veins that join the third and the fourth lower branches of the fifth, and form the sides of the areolet before mentioned; the fifth sends out a fork at about half its length; this fork is shortly divided, and its upper branch is soon subdivided; its lower branch forms two lesser branches, of which the upper one is simple; the lower one is forked, and its upper division almost immediately sends forth another branch.

**LIMNOBIA aberrans, n. s., mas. et fem.** *Fulva, thoracis disco fusco, antennis pedibusque fuscis, femoribus fulvis, alis subcinereis.*

Body tawny: feelers brown, much longer than the head: eyes black: disk of the chest brown: abdomen dark tawny, paler beneath: legs brown; thighs dark tawny: wings slightly gray; brands brown; veins dark brown; poisers tawny, with brown knobs. Length of the body 3 lines; of the wings 7 lines.

a. England. From Mr. Walker's collection.

Div. B B.

The first and the second longitudinal veins are simple; the third sends forth a short, upright cross vein, which joins the fourth; the fourth bears no areolet, and has only one fork, which is near its tip; the fifth, at about two-thirds of its length, has a fork, which curves downwards and joins the fourth: during this passage it has three branches; the first branch is almost immediately forked, and its upper fork sends forth two short cross upright veins that rejoin the fifth vein, and thereby form two areolets; the lower fork and the second branch are simple; the third branch is very slender, and has a little fork near its tip.

*LIMNOMBIA finitima*, n. s., fem. *Cinereo-fusca, thorace fulvo quadri-vittato, abdominis suturis pallidioribus, antennis nigris, pedibus fulvis, femoribus tibiisque apice tarsisque fuscis, alis subfuscis.*

Head and chest grayish brown; the latter with four stripes, the two stripes on each side connected in front: feelers black, about twice the length of the head: abdomen grayish brown; hind border of each segment paler: legs dark tawny; feet, and tips of thighs and of shanks, brown: wings with a slight brown tinge; brands brown; veins dark brown; poisers pale yellow, with brown knobs. Length of the body 3—4 lines; of the wings 8—10 lines.

Var.  $\beta$ . The first branch that descends from the fifth longitudinal vein is straight, and does not form an angle.

a. England. From Mr. Walker's collection.

b. Hammerfest, Finmark. From Mr. Walker's collection.

#### Div. C C.

The first and the second longitudinal veins are simple; the third has a slightly curved cross vein, which joins the fourth a little before the areolet on the latter; the fourth has two short cross veins that join the lowest division of the fifth, and form the sides of the areolet; the second of these cross veins sends forth from its middle a little branch to the tip of the wing; the fifth, a little before two-thirds of its length, sends forth a branch which is forked, and its upper division has a very short vein, by which it rejoins the fifth at the tip of the latter; the lower fork is again divided, and its lower branch forms the upper side of the areolet before mentioned.

*LIMNOMBIA globata*, n. s., mas. et fem. *Fulva, thorace nigro trivittato, abdomine fusco trivittato, antennis nigris, pedibus fulvis, tarsis et tibiis apice fuscis, alis limpidis.*

Body tawny: eyes and feelers black, the latter much longer than the head: chest with three black stripes: abdomen with three brown stripes: legs tawny; feet and tips of the shanks brown: wings colourless; brands none; veins dark brown; poisers yellow, with brown knobs. Length of the body 3 lines; of the wings 7 lines.

a. England. From Mr. Walker's collection.

## Div. D D.

The first and the second longitudinal veins are simple; the third has a short cross vein that joins the middle of the areolet on the fourth; the fourth has two short cross veins that form the sides of the areolet, and the second of these sends forth a branch to the tip of the wing; the fifth, at two-thirds of its length, sends forth a branch, which descends a little into the wing, and there forms an angle, and passes onwards till it forms another angle, and thence bending downwards joins the inner upper angle of the areolet above mentioned: during its course it sends forth three branches, of which the first is forked, the second is simple, the third forms the upper side of the areolet and is afterwards forked.

*LIMNOBIA tempestiva*, n. s., fem. *Fulva, thoracis disco fusco, antennis nigris, pedibus fulvis, tarsis fuscis, alis limpidis.*

Body tawny: eyes and feelers black, the latter longer than the head: disk of the chest brown: legs tawny; feet brown: wings colourless; veins brown; brands pale brown; poisers pale yellow, with brown knobs. Length of the body 4 lines; of the wings 9 lines.

a. England. From Mr. Walker's collection.

## Div. E E.

The first and the second longitudinal veins are simple; the third has a short slanting cross vein, which joins the fourth; on the fourth is no areolet, but only a very short cross vein connecting it with the lower division of the fifth; the fifth, just before half its length, sends forth a branch which runs for a while nearly parallel to it, and joins the little vein which springs from the fourth: during its course it sends forth three branches; the first of these has an oblique fork, which joins the fore border of the wing a little after the tip of the fifth vein; the second is simple; the third springs from the angle of the junction with the little branch of the fourth vein, and is forked.

*LIMNOBIA manifesta*, n. s., fem. *Nigro-fusca, thoracis lateribus flavis, abdominis suturis pallidioribus, antennis pedibusque nigris, alis subfuscis.*

Body dark brown, shining: eyes and feelers black, the latter a little shorter than the chest: fore chest and sides of the chest chiefly bright pale yellow: abdomen dull, dark brown; hind borders of the segments paler: legs black: wings with a very slight brown



tinge; veins dark brown; brands none; poisers pale yellow, their knobs darker. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. England. From Mr. Walker's collection.

### Div. F F.

The first and the second longitudinal veins are simple; the third has a short cross vein, which joins the fourth; the fourth has no areolet, but is forked near its tip; the fifth, soon after one-third of its length, sends forth a branch, which at first forms a very acute angle with it, but afterwards bends downwards and joins the fourth vein: during its course it sends forth three branches; the first of these is forked, and there has also a very short branch, which rejoins the fifth vein; the second and the third are simple.

*LIMNOBIA diuturna*, n. s., mas. et fem. *Cinerea, thoracis lateribus pectoreque fulvis, antennis nigris, pedibus fuscis, tibiis fulvis apice fuscis*, fem. *pedibus fulvis, femoribus tibiisque apice tarsisque fuscis, alis subfuscis*.

*Male*.—Body gray: eyes and feelers black, the latter tawny at the base and shorter than the chest and breast tawny; disk of the former gray: tip of the abdomen tawny: legs brown; shanks dark tawny, with brown tips: wings slightly tinged with brown; brands pale brown; veins and poisers brown. *Fem*.—Legs tawny; feet, and tips of thighs and of shanks, brown. Length of the body 2 lines; of the wings 5 lines.

a. England. From Mr. Walker's collection.

### Div. G G.

The first and the second longitudinal veins are simple; the third has a short upright cross vein, which joins the fourth before the middle of the areolet on the latter; the fourth has two short upright cross veins, which form the sides of the oblong areolet, and from the middle of the second of these a branch proceeds to the tip of the wing; the fifth, soon after one-third of its length, sends forth a branch, which at first is slender and forms a very acute angle with it, but is afterwards stouter and inclines downwards, and joins the fourth vein by a zigzag course: during its passage it sends forth three branches; of these, the first is forked, the second and the third are simple; and the latter forms the upper side of the areolet before mentioned.

*LIMNOBIA errans*, n. s., fem. *Lutea, abdominis dorso fulvo, antennis pedibusque flavis, femoribus tibiis tarsisque apice fuscis, alis limpidis.*

Body luteous: eyes black: feelers yellow, darker towards the tips, longer than the head: abdomen above tawny: legs yellow; tips of the thighs, of the shanks, and of the feet, brown: wings colourless; veins brown, tawny towards the base; brands none; poisers yellow. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

a. England. From Mr. Walker's collection.

### Div. H H.

The first and the second longitudinal veins are simple, and the first is undulating; the third has a rather long oblique vein, whereby it joins the fourth; the fourth has no areolet, but is forked, and its lower branch is shortly again divided; the fifth, a little before one-third of its length, sends forth a branch, which at first forms an acute angle with it, but afterwards inclines downwards, and joins the fourth at the first division of the latter: in its course it sends forth two branches; the first of these is forked, and its upper division is shortly connected with the fifth vein by a very short cross vein; the second branch is simple.

*LIMNOBIA divisa*, n. s., fem. *Lutea, antennis fulvis, pedibus flavis, femoribus apice fulvis, alis limpidis.*

Body luteous: eyes black: feelers tawny, longer than the head, yellow at the base: legs yellow, tips of the thighs tawny: wings colourless; veins tawny; brands none; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings  $7\frac{1}{2}$  lines.

a. England. From Mr. Walker's collection.

### Div. I I.

The first and the second longitudinal veins are simple; the third has a short, nearly upright cross vein, which joins it with the fourth; the fourth has no areolet, but it has a cross vein which connects it with the lowest branch of the fifth, and it is afterwards forked; the middle of this connecting-vein sends forth a branch to the tip of the wing; the fifth, at half its length, has a branch which descends into the wing, and there forms an angle and runs parallel to the fifth vein, and is afterwards forked; its upper division is connected with the fifth vein by a very short upright cross vein; its

lower division descends for a short space and then forms an angle, whence it proceeds straight to the tip of the wing.

*LIMNOBIA attenuata*, n. s., fem. *Nigro-cinerea*, *thorace fulvo obsolete trimaculato*, *abdomine apice ferrugineo*, *antennis nigris*, *pedibus fuscis*, *femoribus fulvis*, *alis limpidis*.

Body grayish black, slender: eyes and feelers black, the latter a little longer than the head: chest tapering in front like a neck, with an indistinct pale tawny spot on each side, and another in front: abdomen very long, its tip ferruginous: legs brown; thighs dark tawny: wings colourless; veins brown; brands none; poisers pale yellow. Length of the body 4 lines; of the wings 8 lines.

a. Hammerfest, Finmark. From Mr. Walker's collection.

#### Div. K K.

The first and the second longitudinal veins are simple; the third has a short cross vein which joins the middle of the areolet on the fourth; the fourth has two short cross veins which form the sides of a rather large areolet, and join the lower division of the fifth vein; the second of these connecting-veins forms a slight angle, from whence a vein proceeds to the lower border near the tip of the wing; the fifth, at about one-third of its length, sends forth a branch, which at first forms a very acute angle with it, and afterwards descends into the disk of the wing, and joins the inner upper angle of the areolet: in its course it sends forth three branches; of these, the first is shortly forked, the second is simple, the third forms the upper side of the areolet and is forked near the tip of the wing.

*LIMNOBIA separata*, n. s., mas. *Nigro-cinerea*, *thorace flavo quadrivittato*, *abdominis suturis pallidioribus*, *apice fulvo*, *pedibus fuscis*, *femoribus fulvis*, *alis limpidis*.

Body slender: head and chest grayish black; the latter with two yellow stripes on each side, connected in front: eyes and feelers black; the latter tawny at the base, a little longer than the head: abdomen grayish black; sutures of the segments paler; the tip tawny: legs brown, long and slender; thighs tawny: wings colourless; brands none; veins brown; poisers pale yellow, with brown knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. Hammerfest, Finmark. From Mr. Walker's collection.

*LIMNOBIA apparens*, n. s., mas. *Fusca, thorace cano trivittato, abdominis apice fulvo, antennis nigris, pedibus fulvis, tarsis fuscis, alis subfulvis.*

Body brown: chest with three hoary stripes: eyes and feelers black, the latter longer than the head: tip of the abdomen tawny: legs tawny, pubescent; shanks darker than the thighs; feet brown: wings slightly tawny; veins brown; brands none; poisers pale yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. England. From Mr. Walker's collection.

#### Div. L L.

The first and the second longitudinal veins are simple; the third has a short cross upright vein, which connects it with the fourth, and the latter just after this junction sends forth a similar vein to the fifth; the fifth, beyond half its length, sends forth a branch which is forked.

*LIMNOBIA conveniens*, n. s., mas. *Pallide fulva, tarsis apice fuscis, alis limpidis.*

Body and legs pale tawny: eyes black: tips of feet brown: wings colourless; veins tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

#### Div. M M.

*LIMNOBIA repanda*, Haliday, Zool. Voy. Erebus and Terror,

a. New Zealand. Presented by Dr. A. Sinclair.

#### Div. N N.

*LIMNOBIA flavithorax*, Wied. Auss. Zweif. i. 37, 23.

a. Para. Presented by Reginald Graham, Esq.

#### DOLICHOPEZA, Curtis.

*DOLICHOPEZA sylvicola*, Curt. Brit. Ent. 62. Meig. Dipt. vi. 284, pl. 65, f. 10, 11. Macq. Hist. Nat. Dipt. i. 116, 1.

a. Scotland. From Mr. Walker's collection.

## TIPULA, Linn.

Div. A. Schummel, pl. 1, f. 1.

a. *Tipulæ notatæ*, Schummel, 13.

*TIPULA lutescens*, *Fabr. Syst. Antl.* 24, 6. *Meig. Dipt.* i. 172, 4. *Macq. Hist. Nat. Dipt.* i. 125, 3. *Ahr. et Germ. Faun.* vii. 23. *Schummel, Besch. Art. Tip.* 18, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 35, 2. *Tipula fulvipennis*, *Deg. Ins.* vi. 135, 4. *Meig. Klass. Zweif.* i. 67, 3.

a. England.

b. *Tipulæ maculatæ*, Schummel, 13.

*TIPULA gigantea*, *Schrank. Ins. Austr.* 845. *Faun. Boic.* iii. 2293. *Gmel. Syst. Nat.* v. 2818, 74. *Schæffer, Icon.* t. 15, f. 3, 4. *Schellenberg, Mouch.* t. 36, f. 1. *Latr. Gen. Crust.* iv. 256. *Meig. Dipt.* i. 170, 1. *Macq. Hist. Nat. Dipt.* i. 81, 1. *Schummel, Besch. Art. Tip.* 20, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 34, 1. *T. sinuata*, *Fabr. Sp. Ins.* ii. 400, 3. *Mant. Ins.* ii. 320. *Ent. Syst.* iv. 234, 3. *Syst. Antl.* 23, 2. *Gmel. Syst. Nat.* v. 2812, 59. *T. &c., Geoff. Ins.* ii. 554, 2. *T. hortorum*, *Herbst, Gem. Nat. d. Th.* viii. 100. *T. rivosæ*, *Don. Nat. Hist. Brit. Ins.* ii. 30, pl. 48, f. 2. *Berk. Syn.* i. 160. *Stew. Elem. Nat. Hist.* ii. 250. *Turt.* iii. 584. *T. nubilosus*, *Harris, Ex.* 55, pl. 14, f. 1.

a. England.

c. *Tipulæ vittatæ*, Schummel, 13.

*TIPULA vittata*, *Meig. Dipt.* i. 171, 2. *Macq. Hist. Nat. Dipt.* i. 81, 2. *Schummel, Besch. Art. Tip.* 22, 3. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 37, 6. *T. oleracea*, *Sam. Ent. Comp.* 71, pl. 9, f. 2.

a. England.

d. *Tipulæ marmoratæ*, Schummel, 14.

a. Schummel.

*TIPULA rufina*, *Meig. Dipt.* i. 176, 10. *Schummel, Besch. Art. Tip.* 26, 5. *Macq. Hist. Nat. Dipt.* i. 84, 12.

a. England. From Mr. Walker's collection.

β. } Schummel.  
 α α. }

*TIPULA hortensis*, *Hoffmansegg*, *Meig. Dipt.* i. 178, 12. *Macq. Hist. Nat. Dipt.* i. 84, 13. *Schummel, Besch. Art. Tip.* 276. *T. hortorum*? *Linn. Faun. Suec.* 1741. *Gmel. Syst. Nat.* v. 2813, 6. *Berk. Syn.* i. 161. *Meig. Dipt.* i. 175, 8. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 37, 8. *T. hortorum*, *Meig. Klass. Zweif.* i. 69, 9.

a. England. From Mr. Walker's collection.

*TIPULA hortulana*, *Meig. Dipt.* i. 177, 11. *Macq. Hist. Nat. Dipt.* i. 83, 10. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 37, 7.

a. England.

*TIPULA luridorostris*, *Schummel, Besch. Art. Tip.* 30, 7.

a. Alten, Finmark. From Mr. Walker's collection.

*TIPULA longicornis*, *Schummel, Besch. Art. Tip.* 32, 8. *Zett. Ins. Lapp.* 843, 15.

a. England. From Mr. Walker's collection.

*TIPULA obsoleta*, *Meig. Dipt.* i. 179, 14. *Schummel, Besch. Art. Tip.* 34, 9. *Zett. Ins. Lapp.* 840, 3. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 38, 10.

a. England. From Mr. Walker's collection.

*TIPULA guttulifera*, *Zett. Ins. Lapp.* 840, 4.

a. Alten, Finmark. From Mr. Walker's collection.

*TIPULA varipennis*, *Hoffmansegg*, *Meig. Dipt.* i. 183, 20. *Schummel, Besch. Art. Tip.* 37, 11. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 40, 15.

a. England. From Mr. Walker's collection.

*TIPULA irrorata*, *Macq. Dipt. Nord.* 130, 14. *Hist. Nat. Dipt.* i. 84, 15. *Schummel, Besch. Art. Tip.* 40, 12.

a. England. From Mr. Walker's collection.

b b. Schummel.

*TIPULA nubeculosa*, *Meig. Dipt.* i. 174, 6. *Zett. Ins. Lapp.* 839, 1. *Macq. Hist. Nat. Dipt.* i. 84, 14. *Schummel, Besch. Art. Tip.* 44, 14. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 36, 5. *Tipula hortorum*, *Fabr. Sp. Ins.* ii. 401, 6. *Ent.*

*Syst. iv.* 236, 7. *Syst. Antl.* 24, 4. *Stew. Elem. Nat. Hist.* ii. 250. *Tipula* &c., *Deq. Ins.* vi. 136, 6. *Turt.* iii. 585.  
*a.* England. From Mr. Walker's collection.

*TIPULA montana*, *Curt. Brit. Ent.* 493. *T. speculum*, *Zett. Ins. Lapp.* 840, 2.

*a.* England. From Mr. Walker's collection.

*b.* Alten, Finmark. From Mr. Walker's collection.

*c c.* *Schummel*, 14.

*TIPULA pabulina*, *Meig. Dipt.* i. 180, 16, vi. 285. *Macq. Hist. Nat. Dipt.* i. 85, 16. *Schummel, Besch. Art. Tip.* 53, 18. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 39, 12.

*a.* England. From Mr. Walker's collection.

*e.* *Tipulæ costato-nervosæ*, *Schummel*, 15.

*a.* *Schummel*.

*TIPULA lateralis*, *Meig. Dipt.* i. 174, 6. *Macq. Dipt. Nord.* 128, 9. *Hist. Nat. Dipt.* i. 86, 21. *Schummel, Besch. Art. Tip.* 57, 20. *Zett. Ins. Lapp.* 843, 14. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 36, 4.

*a.* England. From Mr. Walker's collection.

*TIPULA fenestrata*, *Schummel, Besch. Art. Tip.* 59, 21.

*a.* England.

*β.* *Schummel*.

*TIPULA vernalis*, *Meig. Dipt.* i. 182, 19. *Macq. Dipt. Nord.* 131, 16. *Hist. Nat. Dipt.* i. 85, 17. *Schummel, Besch. Art. Tip.* 63, 23. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 40, 14. *T. divagor*, *Harris, Ex.* 56, pl. 14, f. 4?

*a.* England. From Mr. Walker's collection.

*f.* *Tipulæ costatæ*, *Schummel*, 15.

*TIPULA paludosa*, *Meig. Dipt.* vi. 289, 50. *Schummel, Besch. Art. Tip.* 66, 25.

*a.* England. From Mr. Walker's collection.

*TIPULA stigmosa*, Macq. *Hist. Nat. Dipt.* i. 82, 6.

a. England. From Mr. Walker's collection.

*TIPULA cæsia*, Schummel, *Besch. Art. Tip.* 65, 24.

a. England. From Mr. Walker's collection.

*TIPULA oleracea*, Linn. *Faun. Suec.* 1740. *Fabr. Sp. Ins.* ii. 401, 7. *Mant. Ins.* ii. 822, 7. *Ent. Syst.* iv. 235, 8. *Syst. Antl.* 23, 3. *Gmel. Syst. Nat.* v. 2813, 5. *Deg. Ins.* vi. 134, 1, t. 18, f. 12, 13. *Réaumur. Ins.* v. t. 1, 2, 3. *Geoff. Ins.* ii. 555, 3. *Berk. Syn.* i. 161. *Stew. Elem. Nat. Hist.* ii. 250. *Turt.* iii. 585. *Latr. Gen. Crust.* iv. 256. *Cons. Gén.* 442. *Schæffer, Icon.* t. 15, f. 6. *Schrank. Ins. Austr.* 850. *Meig. Dipt.* i. 189, 30. *Dahlb. Skand. Ins.* *Zett. Ins. Lapp.* 843, 13. *Macq. Dipt. Nord.* 124, 2. *Hist. Nat. Dipt.* i. 82, 5. *Schummel, Besch. Art. Tip.* 68, 26. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 42, 20. *T. terrestris*, Harris, *Ex.* 56, pl. 14, f. 2. *Tychoptera oleracea*, Latr. *Hist. Nat. Cr. et Ins.* xiv. 286, 2.

a. England.

b. France.

g. *Tipulæ unicolores*, Schummel:

a. Schummel.

*TIPULA pruinosa*, Hoffmansegg, *Meig. Dipt.* i. 191, 32. *Macq. Dipt. Nord.* i. 128, 10. *Hist. Nat. Dipt.* i. 82, 7. *Schummel, Besch. Art. Tip.* 72, 28. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 43, 22.

a. England. From Mr. Walker's collection.

*TIPULA fimbriata*, Meig. *Dipt.* i. 190, 31. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 43, 21.

a. England. From Mr. Walker's collection.

*TIPULA dispar*, Haliday, *Ent. Mag.* i. 155.

a. England. From Mr. Walker's collection.

β. Schummel.

*TIPULA luteipennis*, Meig. *Dipt.* vi. 288, 48. *Schummel, Besch. Art. Tip.* 76, 31.

a. England.



h. *Tipulæ lunato-fasciatæ*, Schummel, 16.

*TIPULA* Diana, Hoffmannsegg, Meig. Dipt. i. 189, 29, pl. 6, f. 8. Schummel, Besch. Art. Tip. 85, 36. Macq. Hist. Nat. Dipt. i. 86, 23. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 42, 19. T. turcica, Fabr. Ent. Syst. iv. 237, 14. Syst. Antl. 27, 16. Gmel. Ed. Syst. Nat. v. 2814, 62.

a. England. From Mr. Walker's collection.

*TIPULA* lunata, Linn. Faun. Suec. 1744. Gmel. Ed. Syst. Nat. v. 2814, 9. Deg. Ins. vi. 135, 3. Geoff. Ins. ii. 555, 4. Schaff. Icon. pl. 162, f. 5, 6. Schrank, Ins. Austr. 849. Faun. Boic. iii. 2299. Berk. Syn. i. 161. Stew. Et. Nat. Hist. ii. 251. Turt. iii. 585. Macq. Hist. Nat. Dipt. i. 86, 22. Tychoptera lunata, Latr. Hist. Nat. Cr. et Ins. xiv. 287, 3.

a. England. From Mr. Walker's collection.

b. France.

## β. Schummel.

*TIPULA* ochracea, Meig. Dipt. i. 186, 25. Zett. Ins. Lapp. 842, 9. Macq. Dipt. Nord. 126, 6. Hist. Nat. Dipt. i. 87, 25. Schummel, Besch. Art. Tip. 88, 38. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 40, 17. T. lunata, Fabr. Spec. Ins. ii. 402, 12. Ent. Syst. iv. 236, 13. Syst. Antl. 27, 15. Albin, Nat. Hist. Ins. pl. 61, f. 8—9.

a. England. From Mr. Walker's collection.

*TIPULA* fascipennis, Hoffmannsegg, Meig. Dipt. i. 187, 26, vi. 286. Macq. Dipt. Nord. 127, 8. Hist. Nat. Dipt. i. 87, 26. Schummel, Besch. Art. Tip. 94, 42. Zett. Ins. Lapp. 842, 10. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 41, 18.

b. England. From Mr. Walker's collection.

*TIPULA* flavolineata, Meig. Dipt. i. 185, 24. Macq. Hist. Nat. Dipt. i. 87, 24. T. longicornis, Curt. Brit. Ent. 493.

a. England. From Mr. Walker's collection.

## Div. B. Schummel, pl. 1, f. 2.

a. *Tipulæ unicolors*, Schummel.

*TIPULA* annulicornis, Meig. Dipt. vi. 289, 51, pl. 65, f. 9. T. varicornis, Schummel, Besch. Art. Tip. 99, 46.

b. *Tipulæ vittatæ*, Schummel.

a. } Schummel.  
 a a. }

*TIPULA quadrifaria*, Meig. *Dipt.* i. 199, 43, vi. 286. Schummel,  
*Besch. Art. Tip.* 103, 48.  
 a. England.

β. } Schummel.  
 b b. }

*TIPULA maculosa*, Hoffmannsegg, Meig. *Dipt.* i. 197, 40. Macq.  
*Dipt. Nord.* 133, 12. Schummel, *Besch. Art. Tip.* 114, 53.  
*Zett. Ins. Lapp.* 845, 20. *Gim. Bull. Soc. Imp. Nat. Mosc.*  
 1846, xix. 2, 45, 29. *T. maculata*, Meig. *Klass. Zweif.* i. 71,  
 13. *Pachyrhina maculosa*, Macq. *Hist. Nat. Dipt.* i. 89, 4.  
 a. England. From Mr. Walker's collection.  
 b. From Mr. Children's collection.

*TIPULA Histrio*, Fabr. *Ent. Syst.* iv. 237, 13. *Syst. Antl.* 28, 21.  
 Meig. *Klass. Zweif.* i. 77, n. *Dipt.* i. 198, 42. Macq. *Dipt.*  
*Nord.* 132, 18. Schummel, *Besch. Art. Tip.* 116, 54. *Zett.*  
*Ins. Lapp.* 845, 23. *Tipula* &c., Geoff. *Ins.* ii. 556, 5. *T.*  
*flavomaculata*, Deg. *Ins.* vi. 137, 9. *T. cornicina*, Meig.  
*Klass. Zweif.* i. 71, 12. *Pachyrhina flavomaculata*, Macq.  
*Hist. Nat. Dipt.* i. 90, 6.  
 a. England. From Mr. Walker's collection.

c. *Tipulæ fasciatæ*.

*TIPULA imperialis*, Meierle, Meig. *Dipt.* i. 196, 39, vi. 286.  
 Schummel, *Besch. Art. Tip.* 118, 55. *T. scalaris*, Hoffmannsegg,  
 Meig. *Dipt.* i. 196, 38. *Pachyrhina imperialis*, Macq. *Hist.*  
*Nat. Dipt.* i. 89, 3.  
 a. England.

*TIPULA crocata*, Linn. *Faun. Suec.* 1739. Fabr. *Spec. Ins.* ii. 401,  
 6. *Ent. Syst.* iv. 234, 5. *Syst. Antl.* 25, 9. Gmel. *Syst.*  
*Nat.* v. 2813, 4. Don. *Nat. Hist. Brit. Ins.* ii. 29, pl. 48,  
 f. 1. Berk. *Syn.* i. 161. Stew. *El. Brit. Ins.* ii. 250.  
*Turt.* iii. 684. Meig. *Dipt.* i. 192, 35. Schummel, *Besch.*  
*Art. Tip.* 120, 56. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846,  
 xix. 2, 45, 27. *Zett. Ins. Lapp.* 845, 20. *T. flavofasciata*,  
 Deg. *Ins.* vi. 137, 10. *T. &c.*, Schæffer, *Icon.* i. 126, f. 4.

*Schrank. Faun. Boic.* iii. 2295. *Ins. Austr.* 854. *T. perpulcher, Harris, Ex.* 159, pl. 48, f. 6. *Pachyrhina crocata, Macq. Hist. Nat. Dipt.* i. 88, 1. *Dipt. Nord.* 133, 20.

a. England.

b. France.

c. South of France. From Mr. Walker's collection.

d. Marseilles.

d. *Tipulæ seriato-maculatæ, Schummel.*

*TIPULA pratensis, Linn. Faun. Suec.* 1745. *Fabr. Spec. Ins.* ii. 403, 13. *Ent. Syst.* iv. 237, 16. *Syst. Anth.* 27, 17. *Gmel. Syst. Nat.* v. 2814, 10. *Schæffer, Icon.* t. 15, f. 5. *Schrank. Faun. Boic.* iii. 2300. *Scop. Ent. Carn.* 319, 848. *Stew. El. Nat. Hist.* ii. 251. *Turt.* iii. 586. *Meig. Dipt.* i. 194, 37. *Schummel, Besch. Art. Tip.* 122, 57. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 46, 28. *Pachyrhina pratensis, Macq. Hist. Nat. Dipt.* i. 89, 2.

a. England. From Mr. Walker's collection.

*Note.*—The following exotic species are not included in Schummel's divisions of the European *Tipulæ*, for many of them will not agree therewith.

*TIPULA præpotens, Wied. Auss. Zweif.* i. 40, 1.

a. Nepaul. From the Hardwicke bequest.

*TIPULA venusta, n. s. Rufo-fusca, subtus pallidior, thoracis dorso nigro univittato fulvoque bivittato, abdomine fulvo, disco rufo-fusco, antennis flavis nigro cinctis, pedibus nigris, tibiis albo cinctis, tarsis albis basi nigris, alis limpidissimis fusco subfasciatis.*

Head reddish brown: mouth yellow; palpi brown towards the tips: feelers yellow, beset with short black hairs, not more than half the length of the chest; base of each joint black: chest tawny, reddish brown on the disk, and having there a black stripe in the middle, and a tawny stripe on each side; the two latter communicate in front with the tawny colour of the rest of the chest: abdomen bright tawny, reddish brown on the back, excepting the base of each segment, which is tawny: legs black, very long; a broad white band across each shank: feet white, excepting the first joint: wings colourless, very transparent, having a large irregular brown spot near the tip, where some of the veins are also clouded: there is a small brown brand at the end of the first longitudinal vein, and beneath

it a narrow interrupted brown line extends across the wing, and clouds the sides of some of the short connecting veins; veins very dark brown; poisers brown, tawny at the base. Length of the body 14 lines; of the wings 24 lines.

a. Silhet. From the Rev. J. Stainforth's collection.

*TIPULA albilatus*, n. s., fem. *Fusca albo et flavo varia, thorace nigro quadri-vittato et sex-maculato, abdomine croceo vittis 2 apiceque nigris, antennis pedibusque nigris, femoribus anticis basi fulvis, posticis rufo-fuscis, alis cinereis maculis nonnullis limpidis et quinque fuscis.*

Head whitish; crown bright yellow between the eyes: eyes, mouth and feelers black; the latter much shorter than the chest: chest brown, having in front four black stripes, and behind six large black spots; the inner pair of stripes are slender, the outer pair are broad: fore part of the chest yellow, which colour mingles with a broad silky white stripe on each side; below this there is a deep brown stripe, which is again succeeded by another broad silky white stripe: breast yellow: abdomen saffron-colour, paler beneath, and having a black stripe on each side; its tip also black: legs black; fore thighs dull tawny at the base; hind thighs reddish brown, with black tips: wings gray, with a few indistinct colourless spots, and five distinct brown spots on each; one of these spots is near the base, three are in the disk, and one joins the brand and therewith forms a ring; veins brown, tawny at the base; poisers dull tawny, with dark brown tips. Length of the body 18 lines; of the wings 28 lines.

a. North America? Presented by the Entomological Club.

*TIPULA filipes*, n. s., mas. *Ferruginea, thorace trivittato, abdominis suturis flavis, femoribus tibiis tarsisque apice fuscis, alis sub-fuscis margine antico obscuriore maculaque apicali limpida.*

Body pale ferruginous: disk of the chest and tip of the abdomen somewhat darker: eyes black: three pale narrow stripes on the shield of the chest: abdomen clothed with short hairs; its hinder segments somewhat darker towards their hind borders, which are pale yellow: legs clothed with short hairs, slender, very long, almost four times the length of the body; tips of the thighs, of the shanks, and of the feet, brown: wings slightly brown, darker along the fore border; an indistinct colourless spot at the tip of the first longitudinal vein; veins and poisers pale ferruginous; tips of the latter pale brown. Length of the body 8 lines; of the wings 20 lines

a. St. John's Bluff, Florida. Presented by E. Doubleday, Esq.

**TIPULA triplex**, n. s., mas. *Ferruginea, thoracis disco fusco, fulvo trivittato, abdomine fusco vittato, suturis flavis, femoribus tibiis tarsisque apice fuscis, alis subfuscis margine antico obscuriore maculaque apicali limpida.*

Like *T. filipes*, but the disk of the chest is pale brown, and the stripes on it are broader and more remote from each other: a broad brown stripe along the back of the abdomen and a stripe on each side are interrupted by the pale hind borders of the segments: legs shorter than those of *T. filipes*: the space along the fore borders of the wings is not so dark as in *T. filipes*, and the brown space beyond it is more distinct than in that species and than in *T. duplex*; the fork of the third longitudinal vein is clouded, a character which also distinguishes this from the two preceding species. *Fem.*—Stripes on the abdomen narrow, interrupted and indistinct. Length of the body 12 lines; of the wings 22 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**TIPULA duplex**, n. s., mas. et fem. *Precedenti similis at pallidior pedibusque brevioribus, abdomine basi albido-ferrugineo.*

*Male.*—Much resembles *T. filipes*: disk of the chest rather paler: segments of the abdomen less distinctly paler along the hind borders: legs shorter and paler: wings a little paler, and having the space along the fore border hardly darker than the rest of the wing: base of the abdomen whitish ferruginous: wings with a brown spot beyond the colourless ones as in *T. filipes*. *Fem.*—Legs shorter: segments of the abdomen not paler along the hind borders. Length of the body 8—10 lines; of the wings 17—18 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**TIPULA flavicans**, *Fabr. Syst. Antl.* 24, 5. *Wied. Dipt. Exot.* i. 25, 5. *Auss. Zweif.* i. 48, 13.

a. Nova Scotia. From Lieut. Redman's collection.

**TIPULA borealis**, n. s. *Pallidè flava, thorace fusco, fulvo quinquevittato, metathorace cinereo, abdomine fulvo, antennis flavis, pedibus fulvis, femoribus apice fuscis, alis pallidè cinereo-fulvis anticè limpidis, margine antico flavo.*

Head and mouth whitish yellow: palpi yellow: feelers pale yellow, beset with longer hairs than those of *T. frigida*; base of each joint and the whole of the latter joints brown: chest brown, with five tawny stripes, of which the outer pair are very short and slender, the middle one is broadest and spindle-shaped; sides of chest and breast yellowish white: hind chest hoary: abdomen

tawny, shining at the tip; hind borders of the segments paler: legs tawny, pubescent, long and slender; tips of thighs brown; feet darker tawny towards their tips: wings pale grayish tawny, irregularly colourless beneath the fore border, which is yellow; veins dark tawny; poisers tawny, their tips pale brown. Length of the body 8 lines; of the wings 16 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TIPULA maculipennis*, Say, *Long's Exped. to St. Peter's River, Appendix*, 359. *Wied. Auss. Zweif.* i. 46, 13.

a. Nova Scotia. From Lieut. Redman's collection.

*TIPULA fulvipennis*, n. s. *Fulva*, thorace fusco trivittato, abdomine fusco fasciato, antennis fuscis, alis fulvis, stigmatibus fusco.

Allied to *T. ochracea*. Body tawny: eyes black: feelers brown, tawny at the base, not longer than the chest; every joint furnished with a hair on each side: chest with a darker stripe on each side, and a narrower brown stripe in the middle: back of the abdomen having a brown stripe, which is obsolete at the base and dilated towards the tip; wings tawny, especially along the fore border, near whose tip there is a brown spot; veins brown; poisers tawny. Length of the body 8 lines; of the wings 18 lines.

a. Nepaul. From the Hardwicke bequest.

*TIPULA resurgens*, n. s., mas. *Cinerea*, fulvo varia, thorace fusco trivittato, abdomine fulvo, fusco trivittato, antennis fuscis, alis cinereis fusco variis, margine antico fusco maculis 3 obscurioribus.

Much resembling *T. rufina*, but a distinct species. Head and its appendages tawny: feelers brown, tawny at the base: chest gray, mingled with pale tawny colour, and having three brown stripes on its disk: abdomen tawny, with three brown stripes, the middle one broader and more regular than those on the sides: wings gray, varied with large irregular and indistinct pale brown spots; fore borders brown, with three darker spots of the same colour near the tip; veins brown, tawny at the base and along the fore border; poisers brown. Length of the body 6 lines; of the wings 14 lines.

a. Newfoundland. Presented by W. C. St. John, Esq.

*TIPULA reposita*, n. s., mas. et fem. *Fulva*, abdominis vittis 2 apiceque fuscis, antennis fulvis nigro cinctis, pedibus rufo-fuscis, femoribus fulvis, alis fulvis maculis nonnullis limpidis.

Allied to *T. nubeculosa*. Body tawny: a black ring round each joint of the feelers, which are not longer than the chest: a

brown stripe along each side of the abdomen, whose tip is also brown: legs reddish brown; thighs tawny, with brown tips: wings tawny, adorned with five or six colourless spots various in size and in shape, and having also a brown spot near the tip of the fore border; veins brown; some of the longitudinal veins slightly clouded. Length of the body 8—10 lines; of the wings 16—18 lines.

a. Nepaul. From the Hardwicke bequest.

*TIPULA melanomera*, n. s., mas. *Lætè fulva, capite abdominisque apice nigris, thoracis disco rufo, antennis nigris, pedibus rufo-fuscis, alis subfuscis, stigmatè obscuriore.*

Allied to *T. ochracea*. Body bright orange, velvet-like: head and its appendages black: disk of the chest deep red: tip of the abdomen black: legs dark reddish brown; hips orange-colour: wings pale brown, with a darker spot of the same colour near the tip of the fore border; veins dark brown; poisers brown, orange at the base. Length of the body 8 lines; of the wings 20 lines.

a. Nepaul. From the Hardwicke bequest.

*TIPULA velutina*, n. s., mas. *Ferruginea, thorace bivittato, abdominis suturis apiceque nigris, femoribus basi ferrugineis, alis subcinereis, stigmatè cinereo.*

Body bright ferruginous, velvet-like on the chest: feelers black ferruginous at the base, longer than the chest: eyes black: two pale ferruginous stripes along the back of the chest: hind borders of the fore segments and the whole of the hinder segments of the abdomen black: legs black; thighs dark ferruginous towards the base: wings slightly gray; a very small narrow dark gray spot at the tip of the first longitudinal vein: veins and poisers black. Length of the body 6 lines; of the wings 17 lines

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*TIPULA frigida*, n. s., fem. *Cana, thorace fulvo trivittato, abdomine fulvo apice ferrugineo suturis fuscis, antennis pedibusque fulvis, tarsis fuscis, alis albis fusco variis, margine antico flavescente fusco trimaculato.*

Head hoary: eyes black: mouth tawny: palpi brown: feelers tawny, beset with short hairs, very much shorter than the chest: chest hoary, with the usual three stripes of a tawny colour: abdomen tawny, shining; its tip ferruginous; sutures of the segments brown: legs tawny, pubescent, long and slender; shanks darker than the thighs; feet brown: wings white, marbled with brown, and having three darker and more clearly defined brown marks along the fore

border, which is yellowish; veins brown, yellow at the base and along the fore border; poisers pale yellow, their knobs brown. Length of the body 9 lines; of the wings 16 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TIPULA eburnea*, n. s., fem. *Capite albo flavescente supra fulvo, thorace fusco albido quadrivittato maculisque albis ornato, abdomine fulvo lateribus nigro alboque vittatis, antennis tarsisque fuscis, pedibus fulvis, femoribus tibiisque apice nigris, alis albo limpidis fusco cinereo fulvoque variis.*

Head yellowish white, bright tawny in front above: feelers and mouth brown, the former not near half the length of the chest: palpi and eyes black: chest clear brown, adorned with large ivory-white spots, and having four short narrow whitish stripes on its disk: abdomen tawny, with a black line and a white line running together along each side: legs dull tawny; tips of the thighs and of the shanks black; feet dark brown, dark tawny towards the base: wings colourless, inclining to white, marbled with brown, gray and tawny: veins brown, tawny at the base and on the fore border; poisers tawny, with black tips. Length of the body 9 lines; of the wings 24 lines.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

*TIPULA dorsimacula*, n. s. *Fusca, thorace fulvo quinque-vittato, abdomine fulvo, nigro vittato et maculis nigris utrinque lineato, basi apiceque piceis, antennis fuscis, pedibus fulvis, femoribus tibiis tarsisque apice fuscis, alis cinereo-fulvis albido maculatis, margine antico fulvo.*

Head and mouth grayish brown, the former dull tawny round the eyes: eyes black: feelers brown, tawny at the base, very much shorter than the chest: chest brown, with five dull tawny stripes, of which the two pairs are united on each side both before and behind: abdomen bright tawny, piceous at the base and at the tip, and having a black stripe along the back, and a row of black spots on each side; two spots in each segment: legs tawny, rather stout and thick; their down very short; tips of thighs, of shanks, and of feet, brown: wings pale grayish tawny, with some very indistinct white marks on the disk, and some clearer white marks along the fore border, which is dull tawny, and has a small brown band near its tip; veins brown, tawny at the base; poisers dull tawny, with brown tips. Length of the body 10 lines; of the wings 16 lines.

a. Nova Scotia. From Lieut. Redman's collection.



*TIPULA glomerata*, n. s., mas. et fem. *Cinerea, thorace fusco quinquevittato, antennis nigris, pedibus fusco fulvis, femoribus tibiisque apice tarsisque piceis, alis cinereis maculis nonnullis albis duabusque fuscis.*

Body gray: feelers, eyes, mouth and palpi black: feelers of the male nearly as long as the chest, of the female longer than the head: chest with five brown stripes; the middle stripe very slender; tip of the abdomen of the male tawny, of the female ferruginous: legs very dark tawny; feet, and tips of the thighs and of the shanks, piceous: wings gray, with some large white spots on the disk and along the fore border, where there are also two brown spots; veins black; poisers tawny. Length of the body 6—9 lines; of the wings 14—16 lines.

a. North America. Presented by Dr. Rae.

*TIPULA tricolor*, *Fabr. Ent. Syst.* iv. 235, 9. *Syst. Antl.* 26, 13. *Wied. Dipt. Exot.* i. 22, 1. *Auss. Zweif.* i. 41, 6.

a. Nova Scotia. From Lieut. Redman's collection.

*TIPULA costalis*, *Say, Journ. Acad. Phil.* iii. 23, 2. *Wied. Auss. Zweif.* i. 51, 17.

a. North America. Presented by the Entomological Club.

*TIPULA lateralis*, n. s. *Ferruginea, flavo varia, thorace fusco trivittato, abdomine fusco, antennis ferrugineis, pedibus fuscis, femoribus basi tibiisque apice fulvis, alis subfuscis vittis nonnullis ferè obsoletis limpidis, margine antico fulvo.*

Head yellow; its crown ferruginous: mouth ferruginous: palpi black: feelers ferruginous: chest ferruginous, with three bright brown lines along its back; fore border and sides bright pale yellow, inclining to white: abdomen brown: legs brown; tips of shanks, and thighs from base to beyond the middle, tawny: wings slightly brown, with a few indistinct narrow colourless longitudinal lines; fore borders tawny; veins brown; poisers tawny, with pale brown tips. Length of the body 10 lines; of the wings 20 lines.

a. N. W. coast of Australia. Presented by J. Hunter. Esq.

*TIPULA furca*, n. s. *Cana, thorace fusco trivittato, lateribus pectoreque albis, abdomine fusco univittato, pedibus fulvis, femoribus tibiisque apice tarsisque fuscis, alis cinereo subnebulosis, venis disci fusco marginatis.*

Head hoary: mouth tawny, brown at the tip: feelers pale brown: eyes bronze colour: neck tawny: chest hoary, white beneath and on each side; the disk gray, with three very narrow brown

stripes in front: abdomen hoary, with a broad brown stripe on its back: legs dull tawny; tips of thighs and of shanks dark brown; feet mostly of the same colour, with the exception of the base: wings slightly tinged with gray, almost colourless here and there, and having a broad brown stripe along the fore border; this stripe is paler at intervals, and is twice indented by a colourless space: third longitudinal vein and its fork deeply clouded; poisers tawny, with brown tips. Length of the body 7 lines; of the wings 17 lines.

a. North America. Presented by the Entomological Club.

TIPULA senex, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

b. New South Wales. Presented by Dr. A. Sinclair.

TIPULA Dux, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

TIPULA clara, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

TIPULA obscuripennis, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

TIPULA nova, n. s., fem. *Fusca, thorace fulvo quadrivittato, pectore albido, abdomine fulvo et livido vittato, antennis pedibusque fulvis, femoribus tibiisque apice tarsisque fuscis, alis fuscis, disco apicali limpidis.*

Body pale brown: front of head, feelers and mouth dull tawny: feelers hardly longer than the head: eyes black: chest with four dull tawny stripes on the back; its sides and the breast whitish; scutcheon and hind chest dull tawny, the former with two broad hoary gray-bordered stripes, the latter covered with a hoary bloom: abdomen with a tawny stripe in the middle and a livid stripe on each side; hind borders of the segments hoary: legs tawny; feet, and tips of the thighs and of the shanks, brown; shanks darker than the thighs: wings brown; disk colourless towards the tip, where the hind border is gray; some of the veins in this clear space are clouded with brown; veins brown; poisers very pale tawny, with darker knobs. Length of the body 10 lines; of the wings 22 lines.

a. Hong-Kong, China. Presented by J. C. Bowring, Esq.

*TIPULA inventa*, n. s., mas. *Fulva, thoracis disco fusco fulvo quinque-vittato, pectore albido, antennis pedibusque fulvis, femoribus apice fuscis, alis cinereo-fulvis.*

Body dull tawny: feelers not longer than the head: palpi brown: eyes black: disk of the chest brown, with five narrow tawny stripes; a short connecting band between the two outer stripes on each side; breast and sides of the chest whitish: hind border of the abdominal segments livid: legs tawny, very slender; tips of the thighs brown: wings grayish tawny; fore borders tawny; brands pale brown; poisers tawny, with darker knobs. Length of the body 7 lines; of the wings 16 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*TIPULA vicaria*, n. s., fem. *Lutea, thorace nigro trivittato, abdomine fulvo subreticulato, suturis fulvis, antennis nigris, pedibus fulvis, femoribus apice nigris, tarsis fuscis, alis subfulvis, stigmatibus fusco.*

Head orange: eyes black: palpi brown: feelers black, beset with short hairs, orange at the base, much shorter than the chest: chest luteous, with the usual three black stripes, like those of *T. pratensis*: abdomen black; hind border of each segment tawny, and there are marks of the same colour forming a net-work over the back: hips and thighs bright tawny; tips of the latter black; shanks very dull tawny; feet brown: wings slightly tawny, with a pale brown brand near the tip of the fore border; veins brown; poisers tawny, with brown tips. Length of the body 8 lines; of the wings 14 lines.

a. South Africa. Presented by Dr. A. Smith.

*TIPULA alterna*, n. s. *Fulva, flavo varia, capite fusco bimaculato, thorace fusco trivittato et unimaculato, abdomine fusco vittato, antennis nigris, pedibus fuscis, femoribus basi flavis, alis subfulvis, stigmatibus fusco.*

Closely allied to *T. quadrifaria*. Body bright tawny, mixed with yellow, inclining to white beneath and on each side: eyes black: a dark brown stripe on the mouth: palpi dull yellow: feelers black, tawny at the base: a round dark brown spot on each side of the head, a little behind the eyes: fore chest with three broad dark brown stripes, which are widened in front: an obconical dark brown spot on the scutcheon, which is yellow: abdomen with a dark brown stripe, which is widened in the middle of each segment: legs brown; shanks paler than the feet, darker than the thighs, which are yellow at the base: wings with a slight tawny tinge, especially along the

fore border, which has a small brown spot near its tip; veins brown; poisers yellow, with brown tips. Length of the body  $7\frac{1}{2}$  lines; of the wings 13 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TIPULA festiva*, n. s. *Lætè fulva, thoracis disco nigro, abdomine nigro quadrifasciato, fuscoque unimaculato, antennis nigris, alis subcinereis nigro bimaculatis.*

Body orange: eyes, palpi and feelers black; base of the latter orange: disk of the chest black: abdomen traversed by four broad black bands; the first at the base, the second and the third just before the middle, and the fourth, which is much the broadest, just before the tip; there is also a small round brown spot between the third and fourth bands: legs orange (?): wings slightly gray, having a small black spot very near the base, and another on the fore border near the tip; veins and poisers black. Length of the body 6 lines; of the wings 12 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*TIPULA ferruginea*, *Fabr. Syst. Antl.* 28, 19. *Wied. Dipt. Exot.* i. 28, 9. *Auss. Zweif.* i. 53, 21.

a. Nova Scotia. From Lieut. Redman's collection.

*TIPULA tricineta*, n. s. *Fulva, thorace nigro maculato, abdomine fuscis nigris, pedibus nigris, alis fuscis.*

Head wanting: body bright tawny: disk of the fore chest black, which colour extends on each side to the base of the wing: abdomen nearly oval; hind borders of the third, fourth and fifth segments black; sides of the fourth and fifth segments also black: legs black: wings brown, darker at the base and along the fore border; veins dark brown, nearly black at the base; poisers pale tawny, with brown tips. Length of the body 8 lines; of the wings 22 lines.

a. Sandy Cape, New Holland. Presented by the Earl of Derby.

*TIPULA remota*, n. s. *Fusca, capite fulvo, thoracis vittis 3 lateribusque canis, abdominis suturis canis, antennis fuscis, pedibus fulvis, femoribus tibiisque apice fuscis, alis cinereis albo maculatis.*

Body brown: head tawny: mouth and eyes black: feelers brown, slender, filiform, pubescent, tawny towards the base, rather longer than the body; the joints long and of equal thickness: three narrow hoary stripes on the chest, whose sides are also hoary: a narrow hoary band dilated on each side along the border of each abdominal segment: legs dull tawny, pubescent, long and slender;

tips of thighs, of shanks, and of feet, brown : wings gray, with about twelve irregular white spots on each ; veins brown ; poisers brown, with tawny tips. Length of the body 5 lines ; of the wings 12 lines.

a. New Holland. From Mr. Lambert's collection.

### MEGISTOCERA, Wiedemann.

MEGISTOCERA dispar, *Walker, Ent. Mag.* ii. 468. *M. limbipennis*, *Macq. Dipt. Exot.* i. 60, pl. 6, 1.

a. New Holland. Presented by Dr. A. Sinclair.

b. New Holland. Presented by J. Hunter, Esq.

c. New Holland. Presented by the Haslar Hospital.

### PTILOGYNA, Westwood.

PTILOGYNA ramicornis, *Westwood, Lond. and Edin. Phil. Mag.* vi. 280. *Tipula ramicornis*, *Walker, Ent. Mag.* ii. 469.

a. New Holland. Presented by J. Hunter, Esq.

b. New Holland. From Mr. Lambert's collection.

### GYNOPLISTIA, Westwood.

GYNOPLISTIA bella, *Westwood, Lond. and Edin. Phil. Mag.* vi. 280.

*G. variegata*, *Westwood, Macq. Dipt. Exot.* i. 44, 2. *Ctenophora bella*, *Walker, Ent. Mag.* ii. 470.

a. New Holland. From Mr. Children's collection.

b. Swan River. Presented by Dr. Richardson.

c. New Holland. Presented by J. Hunter, Esq.

d. Van Dieman's Land. Presented by the Rev. T. Ewing.

GYNOPLISTIA subfasciata, *White, Zool. Voy. Erebus and Terror.*

*Ferruginea, thorace cano quadrivittato, antennis nigris, pedibus fulvis, femoribus fuscis fulvo cinctis, alis fusco bifasciatis.*

Body dark ferruginous : head brown : feelers black, tawny at the base, slightly branched on the inner side, shorter than the chest : eyes and palpi black : chest with four hoary stripes, which are united in the rear, and there overspread the whole hinder back : ovipositor long : feet tawny ; thighs brown, with pale tawny bands near their tips ; tips of the shanks and of the feet brown : wings with a slight tawny tinge, having each two brown bands, which are dis-

tinged on the fore border, but pale, interrupted and almost obsolete towards the hind border; veins brown; poisers yellow, with tawny knobs. Length of the body 7 lines; of the wings 10 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

. CTENOPHORA, *Fabricius*.

Div. A. *Meig. Dipt.* i. 15, 6, *pl.* 5, *f.* 14.

CTENOPHORA bimaculata, *Fabr. Syst. Antl.* 18, 3. *Meig. Dipt.* i. 156, 1. *Curt. Brit. Ent.* 5, 1, 2nd ed. do. *Macq. Hist. Nat. Dipt.* i. 80, 9, *pl.* 1, *f.* 10. *Zett. Ins. Lapp.* 848, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 32, 1. *Tipula bifmaculata*, *Linn. Syst. Nat.* ii. 972, 15. *Faun. Suec.* 1750. *Deg. Ins.* vi. 153, 25. *Fabr. Sp. Ins.* ii. 404, 20. *Mant. Ins.* ii. 323, 22. *Ent. Syst.* iv. 240, 28. *Gmel. Ed. Syst. Nat.* v. 2816, 15. *Stew. El. Nat. Hist.* ii. 251. *Turt.* iii. 587. *Schæff. Icon.* cxi. 1, *f.* 5, 6. *T. pectinata*, *Gmel. Syst. Nat.* 2819, 84. *Dictenidia bimaculata*, *Brullé, Ann. Soc. Ent.* i. 206.

a. England.

Div. B. *Meig. Dipt.* i. 158, *pl.* 5, *f.* 15.

CTENOPHORA atrata, *Fabr. Syst. Antl.* 19, 6. *Latr. Gen. Crust.* iv. 254. *Cons. Gén.* 442. *Meig. Dipt.* i. 158, 3. *Curt. Brit. Ent.* 3, 2nd ed. do. *Macq. Hist. Nat. Dipt.* i. 79, 5. *Zett. Ins. Lapp.* 848, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 33, 3. *Tipula atrata*, *Linn. Syst. Nat.* ii. 972, 13. *Faun. Suec.* 1749. *Fabr. Sp. Ins.* ii. 403, 17. *Mant. Ins.* ii. 323, 18. *Ent. Syst.* iv. 238, 22. *Schæff. Icon.* *pl.* 32, *f.* 1. *Schrank. Ins. Austr.* 848. *Faun. Boic.* iii. 2302. *T. ichneumonea*, *Deg. Ins.* vi. 138, 11, *pl.* 19, *f.* 10. *Tanyptera ichneumonea*, *Latr. Hist. Nat. Cr. et Ins.* xiv. 286, 1. *Xiphura Villaretiana*, *Brullé, Ann. Soc. Ent.* i. 206, 2.

a. Aix la Chapelle. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

CTENOPHORA nigricornis, *Meig. Dipt.* i. 159, 4. *Macq. Dipt. Nord.* 138, 3. *Hist. Nat. Dipt.* i. 80, 8. *Zett. Ins. Lapp.* 848, 3. *Curt. Brit. Ent.* 5, 4. *Ct. atrata*, *Meig. Klass. Zweif.* i. 85, 1.

a. Scotland. From Mr. Walker's collection.

Div. C. *Meig. Dipt.* i. 160, pl. 5, f. 16.

**CTENOPHORA** *pectinicornis*, *Meig. Klass. Zweif.* i. 76, 1. *Dipt.* i. 160, 5. *Curt. Brit. Ent.* 5, 5. *Macq. Hist. Nat. Dipt.* i. 78, 1. *Zett. Ins. Lapp.* 849, 4. *Tipula pectinicornis*, *Linn. Faun. Suec.* 1735. *Gmel. Ed. Syst. Nat.* v. 2812, 1. *Schrank. Ins. Austr.* 853. *Faun. Boic.* iii. 2292. *Herbst, Gem. Nat. &c.* viii. t. 338, f. 1, 2. (*Ins. t. lxx.*) *Latr. Hist. Nat. Cr. et Ins.* xiv. 285, 1. *Stew. El. Nat. Hist.* ii. 250. *Turt.* iii. 584. *Wood, Ill. Lin. Gen. Ins.* ii. 85, pl. 64. *T. splendor*, *Harris, Ex.* 56, pl. 14, f. 3. *Tipula &c.*, *Schæff. Icon. t. cvi. f. 5, 6.* *T. nigro-crocea*, *Deg. Ins.* vi. 152, 24. *T. variegata*, *Fabr. Sp. Ins.* ii. 402, 10. *Ent. Syst.* iv. 236, 11. *Syst. Antl.* 17, 2. *Meig. Klass. Zweif.* i. 86, 3. *Stew. El. Nat. Hist.* ii. 251. *Turt.* iii. 585. *Ctenophora variegata*, *Fabr. Syst. Antl.* 17, 2.

a. England.

b. France?

c. Italy? From Mr. Birch's collection.

**CTENOPHORA** *flaveolata*, *Fabr. Syst. Antl.* 18, 5. *Latr. Gen. Crust.* iv. 252. *Meig. Dipt.* i. 161, 6. *Curt. Brit. Ent.* 5, 6. *Macq. Hist. Nat. Dipt.* i. 78, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 33, 4. *Tipula flaveolata*, *Fabr. Ent. Syst.* iv. 234, 6. *Réaum. Ins. v. t. 1, f. 14—16.* *T. crocata*, *Schrank. Ins. Austr.* 854. *Herbst, Gem. Nat.* viii. pl. 338, f. 3. *Ins. pl. lxx.*

a. France.

**CTENOPHORA** *festiva*, *Meig. Dipt.* i. 162, 7. *Macq. Hist. Nat. Dipt.* i. 78, 3. *Guer. Icon. Regn. Anim. Ins.* pl. 92, f. 6. *Tipula &c.*, *Geoff. Ins.* ii. 553, 1, pl. 19, f. 1.

a. France.

**CTENOPHORA** *ornata*, *Megerle, Meig. Dipt.* i. 166, 10. *Curt. Brit. Ent.* i. 5.

a. France?

The following species are not comprised in Meigen's divisions.

**CTENOPHORA** *dorsalis*, n. s. *Fulva, thoracis disco maculisque nigris, abdomine nigro vittato, antennis maris fuscis basi fulvis, fem. fulvis basi nigris, pedibus fulvis, femoribus apice tarsisque fuscis, alis subfulvis.*

Head piceous: mouth and palpi tawny, the latter black at their ips: feelers brown, as long as the chest, tawny at the base, and

having alternate rows of long and of short branches on each side : chest tawny, black on the disk, and with some spots of the same colour on each side : abdomen tawny, having along its back an interrupted black stripe, which is dilated towards the hind border of each segment : legs tawny ; feet and tips of the thighs brown : wings slightly tawny, with a small brown brand near the tip of the fore border ; veins brown, tawny at the base. *Fem.*—Head black : palpi tawny, black at the tips : feelers tawny, moniliform towards their tips, much shorter than the chest ; first and second joints black. Length of the body 8—12 lines ; of the wings 14—16 lines.

a. Newfoundland. Presented by W. C. St. John, Esq.

*CTENOPHORA xanthomelana*, n. s., fem. *Nigra, thorace ferrugineo rufo trivittato, abdomine basi fulvo, alis fuscis.*

Head and appendages black : feelers serrulate, much less than half the length of the chest : chest ferruginous, with three very broad brownish red stripes, varied with reddish brown on each side and behind : abdomen black, attenuated towards the tip, and reaching much beyond the length of the wings ; segments from the first to the third orange-tawny : legs black, pubescent : wings brown, with a small dark brown brand near the tip of the fore border ; veins dark brown ; poisers tawny, with brown tips. Length of the body 14 lines ; of the wings 22 lines.

a. East India. From Mr. Children's collection.

*CTENOPHORA læta*, *Fabr. Syst. Antl.* 19, 8. *Wied. Dipt. Exot.* i. 20, 1. *Auss. Zweif.* i. 38, 2. *Mucq. Dipt. Exot.* i. 42, 1, pl. 2, f. 1. *Tipula læta*, *Fabr. Ent. Syst.* iv. 239, 27.

a. North Bengal. From Miss Campbell's collection.

b. Scinde. From Mr. Warwick's collection.

*CTENOPHORA Taprobanes*, n. s., fem. *Flava, thorace fusco trivittato, abdominis segmentis nigro fasciatis, antennis pedibusque fuscis, tibiis basi albo-cinctis, alis fuscis flavo 7-maculatis.*

Body bright yellow : a black spot on the back of the hind head : eyes black : mouth and palpi tawny : feelers dark brown, tawny at the base : chest with a few brown spots on each side, and three brown stripes on the back, the middle stripe very much in advance of the side stripes and divided into two parts by a tawny line ; three black spots on the scutcheon, and two on the hind chest : abdomen long, spindle-shaped ; sides and tip ferruginous ; first and second segments pale tawny ; fore borders of the other segments black : legs brown ; thighs brownish tawny ; a white ring at the base of each



shank : wings brown, paler along the fore border, with seven yellow spots on each ; the first spot, near the base, forms a band across the wing, and is connected on the fore border with the second, which is the largest ; the third and the fourth are of moderate size ; the fifth is larger ; the sixth and the seventh are small, and, as it were, satellites of the fifth, one is on the fore border, the other on the hind border of the wing ; the extreme tip of the wing is also yellow, and there are some slight indications of very small yellow spots along the hind border ; veins yellow or brown, according to the colour through which they pass ; poisers tawny, with yellow knobs. Length of the body 7 lines ; of the wings 14 lines.

a. Ceylon. From the Rev. J. Wenham's collection.

*CTENOPHORA melanura*, n. s., fem. *Ferruginea, thorace fusco trivittato, abdomine apice nigro, pedibus fulvis, tarsis posticis nigris, alis basi flavis, apice fuscis. margine postico cinereo.*

Head wanting : chest dull ferruginous, with three indistinct brown stripes : tip of the scutcheon brown ; breast and sides of the chest pale brown, the latter varied with yellow : abdomen ferruginous ; the three last segments black : legs tawny ; tips of the hind shanks piceous ; hind feet black : wings yellow from the base to beyond the middle, the other part brown, with the exception of the whole of the hind border, which is gray ; veins tawny or brown, according to the colour through which they pass ; poisers tawny, their knobs darker. Length of the body 8 lines ; of the wings 18 lines.

a. Nepaul. From the Hardwicke bequest.

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# PTEROCOSMUS, n. g.

Feelers of the female setaceous, 7-jointed, not longer than the chest : mouth hardly produced : palpi 4-jointed : abdomen of the male obclavate, longer than that of the female, which is pointed at the tip : wings with the first, second and third longitudinal veins simple, the last joined to the fourth by a cross vein ; the fourth sending forth two branches from its upper side ; its second branch is connected with its first, and its first with the branch of the fifth vein by two short cross veins ; the fifth or main vein runs near the fore border, and sends forth a branch from its lower side at one-third of the length of the wing ; this branch also sends out from its upper side a branch which is shortly forked, and is connected by a short recurrent vein with the main vein, which, at this junction, emits a short oblique vein to the fore border.

*PTEROCOSMUS velutinus*, n. s., mas et fem. . *Nigra, abdomine fasciis nonnullis cinereis, fem. apice fulvo, alis nigro-fuscis basi flavis, fusco unimaculatis.*

Body black, pubescent, velvet-like: feelers setaceous, pubescent; joints long, filiform: abdomen with three or four gray bands, most distinct in the male, whose abdomen is much longer than that of the female; the tip of the latter is tawny: legs black, pubescent, rather slender: wings dark brown, yellow at the base, and having a large brown spot across the disk. Length of the body 8—10 lines; of the wings 14—16 lines.

a. Nepaul. From the Hardwicke bequest.

*PTEROCOSMUS Hilpa*, n. s., fem. *Nigro-fusca, abdomine nigro apice fulvo, alis fuscis albo fasciatis.*

Much resembling *P. velutina*. Body deep brown: eyes, feelers and mouth black: abdomen deep velvet-like black; fore borders of the segments piceous, with a slight silvery lustre; tip bright tawny: legs deep brown, pubescent: wings brown, with a broad white band across each, not yellow at the base as in the preceding species; veins and poisers black. Length of the body 6 lines; of the wings 12 lines.

a. Hong-Kong, China. Presented by J. C. Bowring, Esq.

### PTYCHOPTERA, *Fabricius*.

*PTYCHOPTERA contaminata*, *Fabr. Syst. Antl.* 20, 1. *Meig. Dipt.* i. 205, 1, vi. 290. *Macq. Hist. Nat. Dipt.* i. 76, 1. *Zett. Ins. Lapp.* 849, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 48, 1. *Blanch. Hist. Nat. Ins.* iii. 567. *Stæger, Kroyer, Naturhist. Tids.* iii. 1, 1. *Tipula contaminata*, *Linn. Syst. Nat.* ii. 972, 8. *Faun. Succ.* 1743. *Gmel. Syst. Nat.* v. 2814, 8. *Fabr. Sp. Ins.* ii. 402, 11. *Mant. Ins.* ii. 322, 11. *Ent. Syst.* iv. 236, 12. *Latr. Gen. Crust.* iv. 257. *Cons. Gén.* 442. *Geoff. Ins.* ii. 558, 8. *Réaumur. Ins.* v. t. 6, f. 1—3. *Schæff. Icon.* t. 196, f. 3, t. 48, f. 7. *Schränk. Faun. Boic.* iii. 2298. *Ins. Austr.* 863. *Berk. Syn. Nat. Hist.* i. 161. *Stew. El. Nat. Hist.* ii. 251. *Turt.* iii. 585. *Encycl. Meth. pl.* 384, f. 27, 29. *T. fuscipes*, *Gmel. Syst. Nat.* v. 2819, 88. *Tychoptera contaminata*, *Latr. Hist. Nat. Cr. et Ins.* xiv. 286, 1.

a. England.

**PTYCHOPTERA scutellaris**, *Hoffmansegg, Meig. Dipt. i. 206, 2, vi. 290. Zett. Ins. Lapp. 860, 2. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 49, 2. Stæger, Kroyer, Naturhist. Tids. iii. 2, 4. Tipula nigra? Fabr. Sp. Ins. ii. 405, 18. Ent. Syst. iv. 239, 23. Ptychoptera nigra? Fabr. Syst. Antl. 21, 2.*  
*a. England. From Mr. Walker's collection.*

**PTYCHOPTERA paludosa**, *Meig. Dipt. i. 207, 3, vi. 290. Macq. Hist. Nat. Dipt. i. 76, 3. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 49, 3.*  
*a. England.*

**PTYCHOPTERA albimana**, *Fabr. Syst. Antl. 21, 3. Meig. Dipt. i. 207, 4, pl. 6, f. 17. Macq. Hist. Nat. Dipt. i. 77, 4, pl. 1, f. 9. Tipula albimana, Fabr. Ent. Syst. iv. 239, 24. Gmel. Syst. Nat. v. 2815, 65. Stæger, Kroyer, Nat. Tids. iii. 1, 3.*  
*a. England.*

**PTYCHOPTERA metallicâ**, *n. s. Nigro-ænea, abdomine apice fulvo, pedibus fuscis, fcmoribus fulvis, alis cinereis.*

Body black: head and chest bronze: abdomen bronze-black, tawny at the tip: legs brown, pubescent; thighs tawny, with brown tips: wings gray, tawny along the fore border; veins brown; poisers dull tawny. Length of the body 3 lines; of the wings 6 lines.

*a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.*

Some of the characters of this species differ from those of the other *Ptychopteræ*: the fifth longitudinal vein extends beyond two-thirds of the length of the wing, and there joins the fore border; the fourth is adjacent to the fifth till near the tip, and after emitting a branch, which runs parallel to it, is forked beyond three-fourths of the length of the wing; the forks are very short, and one joins the fore border, the other joins the branch before mentioned; the latter soon after its origin is divided, and its lower branch is again divided; at the source of its first division a short cross vein joins it to the third, which is forked near the tip of the wing; the second is simple, but is joined to the third by a cross vein, which has an outward angle, whence a vein proceeds to the hind border near the tip of the wing; the first is forked.

**HESPERINUS, D. G.**

Feelers setaceous, pubescent, more than half the length of the body; joints long, linear; second joint very short; third long; fourth about half the length of the third; the following joints to the twelfth successively but slightly decreasing in length; legs without spines: wings with five longitudinal veins; the first, from the hind border, slight, indistinct, curving downwards at the tip, and reaching the hind border before one-third of the length of the wing; second stout, following the curve of the first, and terminating on the hind border before half the length of the wing; third slender, forked after half its length, its branches join the hind border near its tip, its upper division is slightly curved downwards; a cross vein joins the third vein with the second, somewhat after half the length of the latter, and forms a slight outward angle, whence a vein proceeds to the hind border of the wing; fourth vein stout, passing very near the fore border, and joining it at three-fourths of the length of the wing; at half its length it sends forth a branch which follows the curve near the tip of the wing, where it ends; a short perpendicular vein connects this branch with the third vein before the fork of the latter, and a longer and very oblique vein joins it to the fore border after the tip of the fourth vein.

**HESPERINUS brevifrons, Barnston MSS.** *Nigro-fuscus, antennis pedibusque fuscis, thorace cano trivittato, abdomine cano univittato, alis cinereis.*

Body dark brown: feelers brown: chest with three hoary stripes, the middle one very broad: abdomen with a narrow hoary line in the middle; segments rather contracted at the base: legs brown, pubescent; their brown colour from the thighs to the feet gradually passing to pale yellow: wings gray; veins black; poisers pale brown or dull tawny. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**BITTACOMORPHA, Westwood.**

**BITTACOMORPHA clavipes, Westwood, Lond. and Edin. Phil. Mag.** vi. 281. *Macq. Hist. Nat. Dipt* ii. 649, 1. *Dipt. Exot.* i. 64. *Tipula clavipes, Fabr. Spec. Ins.* ii. 404, 19. *Mant. Ins.* ii. 323, 21. *Ent. Syst.* iv. 239, 25. *Gmel. Syst. Nat.* v. 2815, 66. *Ptychoptera clavipes, Fabr. Syst. Anth.* 22, 4. *Wied. Auss. Zweif.* i. 59, 1.

- a. Trenton Falls. Presented by the Entomological Club.
- b. Nova Scotia. From Lieut. Redman's collection.
- c. Nova Scotia. From Mr. Children's collection.

. ANISOMERA, *Hoffmansegg*.

ANISOMERA longicornis, *Barnston MSS.*, mas. *Cana, thorace fusco trivittato, antennis nigris corpore duplicato multo longioribus, pedibus fuscis, femoribus fulvis, alis subcinereis.*

Body hoary: palpi and feelers black, the latter pubescent, dull tawny towards the base, and much more than twice the length of the body: chest with three brown stripes; scutcheon dark gray: legs dark brown, pubescent; thighs, except their tips, dull tawny: wings slightly gray; veins brown; an indistinct brown spot near the tip of the fore border; poisers dull pale tawny. Length of the body 4 lines; of the wings 10 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ANISOMERA nigra, *Macq. Hist. Nat. Dipt.* i. 117, 1, *pl.* 3, *f.* 1, 2. *Blanch. Hist. Nat. Ins.* iii. 571. *Hexatoma nigra, Latr. Gen. Cr. et Ins.* iv. 260. *Lam. Anim. sans Verteb.* 446, 1.

a. France.

ANISOMERA bicolor, *Meig. Dipt.* vi. 292, 3. *Macq. Hist. Nat. Dipt.* i. 117, 2.

a. England. From Mr. Walker's collection.

ANISOMERA vittata, *Meig. Dipt.* vi. 292, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 49, 1. *Perenocera fuscipennis, Curt. Brit. Ent.* 589, 1.

a. England. From Mr. Walker's collection.

CHIONEAE, *Dalman*.

CHIONEAE aspera, n. s. *Obscure fulva, hirsutissima, antennis nigris, pedibus fulvis.*

Body dark tawny, very hairy: eyes black: feelers black, beset with long hairs, tawny at the base, a little longer than the head: legs tawny, long, stout and very hairy. Length of the body 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

CHIONEAE scita, n. s., fem. *Pallide fulva, hirsuta, antennis nigris.*

Body pale tawny, longer and more slender than that of the preceding species, and much less hairy: eyes black: feelers black,

less hairy than those of *C. aspera*, longer than the head: legs tawny, paler, more slender, less hairy, and a little longer than those of *C. aspera*. Length of the body  $2\frac{1}{2}$  lines.

a. North America. Presented by the Entomological Club.

### TRICHOCERA, Meigen.

*TRICHOCERA fuscata*, Megerle, Meig. Dipt. i. 212, 1. Macq. Hist. Nat. Dipt. i. 115, 2. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 51, 5. Stæger, Kroyer, Nat. Tids. iii. 56, 3.

a. England. From Mr. Walker's collection.

*TRICHOCERA hiemalis*, Meig. Dipt. i. 213, 2. Macq. Hist. Nat. Dipt. i. 114, 1, pl. 2, f. 16. Zett. Ins. Lapp. 852, 1. Gim. Bull. Soc. Imp. Nat. Mosc. 114, 1. Curt. Journ. Roy. Agric. Soc. 1843, iv. 1, f. 27. Blanch. Hist. Nat. Ins. iii. 571. Stæger, Kroyer, Nat. Tids. iii. 56, 1. *Tipula hiemalis*, Deg. Ins. vi. 141, 13, pl. 21, f. 1, 2. *Tipule*, &c., Geoff. Ins. ii. 559, 13. *T. saltator*, Harris, Ex. 57, pl. 14, f. 5. *Limonia hiemalis*, Latr. Gen. Crust. iv. 258. Lam. Anim. sans Verteb. iii. 444, 1.

a. England.

*TRICHOCERA parva*, Meig. Dipt. i. 213, 3. Macq. Hist. Nat. Dipt. i. 115, 3. Zett. Ins. Lapp. 852, 2. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 50, 2. Stæger, Kroyer, Nat. Tids. iii. 56, 2.

a. England. From Mr. Walker's collection.

*TRICHOCERA regelationis*, Meig. Dipt. i. 214, 4, pl. 7, f. 9. Macq. Hist. Nat. Dipt. i. 115, 5. Zett. Ins. Lapp. 853, 3. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 50, 3. Stæger, Kroyer, Nat. Tids. iii. 56, 4. *Tipula regelationis*, Linn. Syst. Nat. ii. 972, 21. Faun. Suec. 1754. Gmel. Syst. Nat. v. 2817, 21. Fabr. Sp. Ins. ii. 405, 28. Mant. Ins. ii. 324, 32. Ent. Syst. iv. 242, 38. Syst. Antl. 32, 40. Schrank. Ins. Austr. Sp. 873.

a. England.

b. France.

*TRICHOCERA annulata*, Megerle, Meig. Dipt. i. 215, 6. Macq. Hist. Nat. Dipt. i. 115, 4. Stæger, Kroyer, Nat. Tids. iii. 57, 5.

a. England. From Mr. Walker's collection.

**TRICHOCERA bimacula**, n. s. *Cano-fulva, thorace cano trivittato, abdomine fusco fastiato, antennis tarsisque fuscis, pedibus fulvis, alis limpidis fusco bimaculatis.*

Head and chest overspread with a slight hoary bloom: head tawny: palpi and eyes black: feelers brown, slender, pubescent, more than half the length of the body: chest brown: three indistinct hoary stripes on the disk of the shield: breast tawny: abdomen with alternate tawny and brown rings: legs tawny, slender, pubescent; knees and feet brown: wings colourless, with two small pale brown spots on the disk; veins brown; poisers tawny. Length of the body 2 lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**TRICHOCERA gracilis**, n. s., fem. *Nigra, gracilis, pedibus fuscis, alis subcinereis immaculatis.*

Body black, slender, dull: scutcheon and breast piceous: feelers black, nearly half the length of the body: legs brown: wings slightly gray, not spotted; veins black; poisers tawny, with piceous knobs. Length of the body 2 lines; of the wings 5 lines.

a. New York Factory. Presented by Dr. Rae.

#### e. Fungicolæ Meigen.

##### DIXA, Meigen.

**DIXA æstivalis**, Meig. *Dipt.* i. 218, 2. *Macq. Hist. Nat. Dipt.* i. 116, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 51, 1. *Blanch. Hist. Nat. Ins.* iii. 571.

a. England. From Mr. Walker's collection.

b. Prussia. From Mr. Walker's collection.

**DIXA aprilina**, Meig. *Dipt.* i. 218, 3, t. 7, f. 12. *Macq. Hist. Nat. Dipt.* i. 116, 2, pl. 3, f. 5.

a. England. From Mr. Walker's collection.

**DIXA maculata**, Meig. *Dipt.* i. 219, 4. *Macq. Hist. Nat. Dipt.* i. 117, 3. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 51, 2. *Stæger, Kroyer, Nat. Tids.* iii. 57, 1.

a. England. From Mr. Walker's collection.

**DIXA nebulosa**, Meig. *Dipt.* vi. 293, 5. *Zett. Ins. Lapp.* 854, 1. *Curt. Brit. Ent.* 409, 6. *Guer. Icon. Regn. Anim. Ins. pl.* 93, f. 1. *Stæger, Kroyer, Nat. Tids.* iii. 57, 2.

a. England. From Mr. Walker's collection.

*Dixa nubilipennis*, Curt. Brit. Ent. 409, 5.

a. Ireland. Presented by A. H. Haliday, Esq.

*Dixa nova*, n. s., mas. *Nigra, thorace rufo bivittato, pedibus fulvis, tarsis fuscis, femoribus tibiisque apice nigris, alis subcinereis, fusco unimaculatis.*

Body black: chest with two dull red stripes: feelers black, about half the length of the body: legs dark tawny; feet brown; tips of the thighs and of the shanks black: wings slightly gray, each with a brown spot shading part of the cross veins; veins brown; poisers yellow. Length of the body  $1\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. New York Factory. Presented by Dr. Rae.

*Dixa recens*, n. s., mas. *Nigro, thoracis vittis quinque scutello pectoreque rufis, pedibus fulvis, femoribus tibiisque apice tarsisque fuscis, alis subcinereis immaculatis.*

Body black: chest with five dark red stripes, meeting behind; scutcheon and breast dark red: feelers black, more than half the length of the body: legs tawny; feet, and tips of the thighs and of the shanks, brown: wings slightly gray, not spotted; veins brown; poisers tawny, with brown knobs. Length of the body  $1\frac{1}{2}$  line; of the wings  $4\frac{1}{2}$  lines.

a. New York Factory. Presented by Dr. Rae.

#### BOLITOPHILA, Hoffmannsegg.

*Bolitophila maculipennis*, Walker, Ent. Mag. iii. 179. *B. bimaculata*, Zett. Ins. Lapp. 854, 168, 1. Stæger, Kroyer, Nat. Tids. iii. 228, 1. Messala Saundersii, Curt. Brit. Ent. 581.

a. England.

b. England. From Mr. Walker's collection.

*Bolitophila fusca*, Meig. Dipt. i. 221, 2. Macq. Hist. Nat. Dipt. i. 126, 2. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 52, 1. Stæger, Kroyer, Nat. Tids. iii. 228, 2. *Macrocera hybrida*, Meig. Klass. Zweif. i. 47, 3.

a. England. From Mr. Walker's collection.

#### MACROCERA, Meigen.

*Macrocera lutea*, Panzer, Faun. Germ. cv. 7. Meig. Dipt. i. 223, 1. Curt. Brit. Ent. 637, 5. Macq. Hist. Nat. Dipt. i. 128, 4. Zett. Ins. Lapp. 855, 1. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 52, 2. Stæger, Kroyer, Nat. Tids. iii. 230, 1.

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.



*MACROCERA phalerata*, *Hoffmansegg, Meig. Dipt. i. 223, 3. Curt. Brit. Ent. 637, 1. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 52, 1. Stæger, Kroyer, Nat. Tids. iii. 231, 5.*

a. England. From Mr. Walker's collection.

*MACROCERA angulata*, *Meig. Dipt. i. 224, 4. Curt. Brit. Ent. 637, 2. Stæger, Kroyer, Nat. Tids. iii. 231, 3.*

a. England. From Mr. Walker's collection.

*MACROCERA centralis*, *Meig. Dipt. i. 225, 5. Curt. Brit. Ent. 637, 3. Stæger, Kroyer, Nat. Tids. iii. 231, 4.*

a. England. From Mr. Walker's collection.

*MACROCERA stigma*, *Curt. Brit. Ent. 637, 6.*

a. England. From Mr. Walker's collection.

*MACROCERA vittata*, *Meig. Dipt. vi. 293. M. dorsalis, Curt. Brit. Ent. 637, 7.*

a. England. From Mr. Walker's collection.

b. Hammerfest, Finmark. From Mr. Walker's collection.

• *MACROCERA fasciata*, *Meig. Dipt. i. 223, 2. Curt. Brit. Ent. 637, 8. Macq. Hist. Nat. Dipt. i. 128, 5. Zett. Ins. Lapp. 855, 2. Stæger, Kroyer, Nat. Tids. iii. 230, 2.*

a. England. From Mr. Walker's collection.

*MACROCERA nana*, *Macq. Dipt. Nord. 6. Hist. Nat. Dipt. i. 128, 6. M. pusilla, Meig. Dipt. vi. 293, 8. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 53, 3. M. multicincta, Curt. Brit. 637, 9.*

a. England. From Mr. Walker's collection.

### MYCETOBIA, *Meigen.*

*MYCETOBIA pallipes*, *Megerle, Meig. Dipt. i. 230, 1, pl. 8, f. 10. Macq. Hist. Nat. Dipt. i. 146, 1, pl. 3, f. 14. Blanch. Hist. Nat. Ins. iii. 573.*

a. England. From Mr. Walker's collection.

### ASINDULUM, *Latreille.*

*ASINDULUM tenuipes*, *Barnston's MSS. Fusca, thorace cinereo bivittato, abdomine cinereo, lateribus flavo-vittatis, antennis nigris, pedibus fulvis, tarsis fuscis, alis limpidis.*

Body brown: head gray in front: eyes black: mouth tawny, produced: feelers black, pubescent, as long as the chest, which has

two gray stripes: sides of hind chest yellow: abdomen gray, somewhat paler on the hind border of each segment, and having a yellow stripe on each side: legs dull tawny, long and slender; feet brown: wings colourless; veins brown; poisers yellow, with brown tips. Length of the body 2 lines; of the wings  $5\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### LEPTOMORPHUS, *Curtis*.

LEPTOMORPHUS *Walkeri*, *Curt. Brit. Ent.* 365.

a. England. From Mr. Walker's collection.

LEPTOMORPHUS *elongatus*, *Curtis*. *Cinereo-fuscus, antennis fuscis, pedibus fulvis, tibiis apice tarsisque fuscis, alis limpidis.*

Body grayish brown: eyes black: feelers brown, yellow at the base, longer than the chest: palpi yellow, long: legs tawny: trochanters, feet and tips of the shanks brown; shanks not bristly, their spines short: wings colourless; veins brown; poisers tawny. Length of the body 3 lines; of the wings 5 lines.

The arrangement of the veins of this species is somewhat different from that of *L. Walkeri*: the first vein is simple; the second is forked before half its length; the third is forked nearer the tip, the base of its branch is obsolete, and it appears isolated in the disk of the wing; the fourth is simple, but a cross vein joins it to the third and forms an outward angle, whence a vein proceeds to the disk of the wing; the fifth vein is slight, and joins the fore border at one-third of the length of the wing.

### DIOMONUS, n. g.

Resembles *Platyura* as regards its antennæ, while its wings are those of *Leptomorphus*, except that the areola under the anterior margin of the wing, absent in that genus, is present in this.

DIOMONUS *nebulosus*, *Barnston's MSS.* *Purpureo-niger, antennis flavis basi nigris, pedibus nigris, femoribus basi flavis, tarsis rufo-fuscis, alis subfulvis fusco unimaculatis apice cinereis.*

Body purplish black, shining: palpi tawny: feelers bright yellow, black towards the base, a little longer than the chest, having fifteen or sixteen joints; first and second joints dark red: mouth dark red: legs black; tips of the hips and thighs at the base pale yellow; hind thighs armed beneath, near their tips, with long stout

spines; knees yellow; shanks with two long spines at their tips; feet reddish brown: wings slightly tawny, with gray tips, and each having a brown spot near the fore border a little before the middle; veins brown; poisers yellow, with brown tips. Length of the body 5 lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### DITOMYIA, Winnertz.

DITOMYIA Boleti, Kaltenbach.

a. Aix la Chapelle, Prussia. From Mr. Walker's collection.

### SYMMERUS, n. g.

Allied to *Platyura*. Feelers like those of *Platyura*, 16-jointed? a little longer than the chest: abdomen compressed, rather long: shanks bristly, their tips armed with two long spines: wings with only two distinct longitudinal veins; the first curves slightly to the hind border of the wing, a very angular cross vein connects it with the second vein; from this vein proceed three branches; the first and the second come forth below the angle, and the second is shortly forked; the third is more robust than the second, and is forked a little before half its length: the second longitudinal vein is simple, and runs near the fore border, which it joins before the tip of the wing.

SYMMERUS ferrugineus, n. s. *Fulvus, abdomine flavo fasciis fuscis, antennis fuscis, pedibus fulvis, alis subfulvis.*

Body tawny: abdomen yellow, clothed with short pale hairs; a broad brown band on the fore border of each segment: eyes black: feelers brown, yellow at the base: legs tawny; hips long; bristles and spines of the shanks black: wings slightly tawny; veins brown; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. England.

### PLATYURA, Meigen.

Div. A. Meig. Dipt. pl. 8, f. 14. Macq. Dipt. i. 141.

PLATYURA marginata, Meig. Dipt. i. 232, 1, pl. 8, f. 14. Macq. Hist. Nat. Dipt. i. 141, 1. Blanch. Hist. Nat. Ins. iii, 573.

a. England. From Mr. Walker's collection.

Div. B. *Meig. Dipt. pl. 8, f. 19, Macq. Dipt. i. 142.*

**PLATYURA magna**, n. s. *Cinerea, abdomine ferrugineo, segmentorum marginibus posticis fuscis, antennis nigris, pedibus fuscis, femoribus flavis, tibiis apici flavo maculatis, alis subflavis apice cinereis.*

Body gray: mouth yellow: eyes black: feelers black, compact, setaceous, slightly compressed, much shorter than the chest: abdomen ferruginous, rather long; hind borders of the segments brown: legs dark brown; thighs yellow; a yellow spot at the tip of each shank: wings slightly tinged with yellow; their tips and the veins brown. Length of the body 7 lines; of the wings 11 lines.

a. New Holland. Presented by Dr. A. Sinclair.

**PLATYURA atrata**, *Meig. Dipt. i. 233, 2, vi. 294. Macq. Hist. Nat. Dipt. i. 142, 2. Ceroplatus atratus, Fabr. Syst. Antl. 16, 3.*  
a. England.

**PLATYURA lineata**, *Meig. Dipt. i. 234, 4, vi. 295. P. laticornis, Meig. Dipt. i. 238, 13, pl. 8, f. 19—21. Rhagio lineatus, Fabr. Sp. Ins. ii. 420, 4. Ent. Syst. iv. 273, 6. Sciara lineata, Fabr. Syst. Antl. 57, 3. Musca striata, Gmel. Ed. Syst. Nat. v. 2865, 314. Stew. El. Nat. Hist. ii. 264. M. lineata, Turt. iii. 663.*

a. England.

**PLATYURA laticornis**, *Meig. Dipt. i. 238, 13. Stæg. Kroy. Nat. Tids. iii. 279, 7.*

a. England. From Mr. Walker's collection.

**PLATYURA flavipes**, *Meig. Dipt. i. 237, 9. Macq. Hist. Nat. Dipt. i. 143, 6. Curt. Brit. Ent. 134. Guer. Icon. Reyn. Anim. Ins. pl. 93, f. 4. Stæg. Kroy. Nat. Tids. iii. 278, 5.*

a. England. From Mr. Walker's collection.

**PLATYURA vitripennis**, *Meig. Dipt. vi. 295, 21.*

a. England. From Mr. Walker's collection.

**PLATYURA rufipes**? *Hoffmansegg, Meig. Dipt. i. 241, 19.*

a. England. From Mr. Walker's collection.

**PLATYURA discoloria**, *Meig. Dipt. i. 239, 14. Macq. Hist. Nat. Dipt. i. 144, 11. Curt. Brit. Ent. 134.*

a. England.

*PLATYURA servula*, Walker, *Ent. Mag.* iv. 115.

a. England. From Mr. Walker's collection.

*PLATYURA fasciata*, Meig. *Dipt.* i. 240, 15. *Macq. Hist. Nat. Dipt.* i. 143, 8. *Zett. Ins. Lapp.* 857, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 54, 3. *Stæg. Kroy. Nat. Tids.* iii. 279, 8. *Asindulum fasciatum*, Latr. *Gen. Crust.* iv. 261. *Cons. Gén.* 442.

a. England.

*PLATYURA fascipennis*, Say, *Long's Exped. to St. Peter's Riv. App.* ii. 360. *Wied. Auss. Zweif.* i. 61, 2.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*PLATYURA sobria*, n. s., fem. *Fulva*, capite nigro, metathorace pectoreque pallide fulvis, abdomine nigro univittato, antennis nigris, pedibus fusco-fulvis, alis subfulvis.

Body tawny: head black: hind chest and breast pale tawny: abdomen clothed with black hairs, broader than that of the following species, with a slender black stripe along its back: feelers black, not longer than the chest; first and second joints tawny: legs pale tawny; shanks dull tawny; feet brown: wings slightly tawny; veins brown; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. England. From Mr. Walker's collection.

*PLATYURA inconspicua*, n. s., mas. *Fulva*, thorace vix trivittato, abdominis suturis pallide fulvis, antennis nigris, pedibus fusco-fulvis, alis subfulvis.

Body tawny: head black: chest pubescent, with three very indistinct pale stripes: abdomen clothed with black hairs: feelers black, not longer than the chest: hind borders of abdominal segments above and the whole beneath pale tawny: legs pale tawny; shanks darker; feet brown: wings slightly tawny; veins brown; poisers pale tawny. Length of the body 2 lines; of the wings 4 lines.

a. England. From Mr. Walker's collection.

SCIOPHILA, *Hoffmansegg.*

Div. B. *Meig. Dipt. pl.* 9, f. 6. *Macq. Dipt. i.* 136. *Zett. Ins. Lapp.* 858.

SCIOPHILA fimbriata, *Meig. Dipt. i.* 247, 3.  
a. England. From Mr. Walker's collection.

SCIOPHILA annulata, *Meig. Dipt. i.* 247, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 55, 2.  
a. England. From Mr. Walker's collection.

SCIOPHILA cingulata, *Meig. Dipt. i.* 247, 5. *Macq. Hist. Nat. Dipt. i.* 137, 2. *Platyura cingulata, Meig. Klass. Zweif. i.* 102, 5.  
a. England. From Mr. Walker's collection.

SCIOPHILA maculata, *Meig. Dipt. i.* 248, 6. *Stæg. Kroy. Nat. Tids. iii.* 271, 4. *Platyura flavescens, Fabr. Syst. Anth.* 33, 46. *P. maculata, Meig. Klass. Zweif. i.* 101, 3.  
a. England. From Mr. Walker's collection.

SCIOPHILA marginata, *Megerle, Meig. Dipt. i.* 249, 8. *Stæg. Kroy. Nat. Tids. iii.* 271, 3.  
a. England. From Mr. Walker's collection.

SCIOPHILA trilineata, *Zett. Ins. Lapp.* 859, 6.  
a. Alten, Finmark. From Mr. Walker's collection.

SCIOPHILA cinerascens, *Macq. Dipt. Nord. i.* 101, 9. *Hist. Nat. Dipt. i.* 138, 6. *Zett. Ins. Lapp.* 860, 8.  
a. Alten, Finmark. From Mr. Walker's collection.

SCIOPHILA ferruginea, *Meig. Dipt. i.* 242, 9.  
a. England. From Mr. Walker's collection.  
b. Alten, Finmark. From Mr. Walker's collection.

SCIOPHILA ornata, *Meig. Dipt. i.* 250, 10.  
a. England. From Mr. Walker's collection.

SCIOPHILA nigra, *Macq. Dipt. Nord.* 7. *Hist. Nat. Dipt. i.* 138, 7.  
a. England. From Mr. Walker's collection.

SCIOPHILA lutea, *Macq. Dipt. Nord.* 5. *Hist. Nat. Dipt. i.* 139, 10. *Stæg. Kroy. Nat. Tids. iii.* 274, 11.  
a. England. From Mr. Walker's collection.

• Div. C. *Meig. Dipt. pl. 9, f. 7.*

**SCIOPHILA hirta**, *Hoffmansegg, Meig. Dipt. i. 251, 12. Macq. Hist. Nat. Dipt. i. 139, 11, pl. 3, f. 10. Stæg. Kroy. Nat. Tids. iii. 274, 10. S. subincana? Curt. Brit. Ent. 641, 12. S. sylvatica? Curt. Brit. Ent. 641, 66.*

a. England. From Mr. Walker's collection.

**SCIOPHILA rufilatera**, *Walker, Ent. Mag. iv. 115.*

a. England. From Mr. Walker's collection.

**SCIOPHILA grisea**, *Barnston's MSS. Cinereo-fusca, antennis nigris, pedibus flavis, alis limpidis.*

• Body dark grayish brown, clothed with yellow hairs: eyes black: palpi tawny: feelers black, ferruginous at the base: legs pale yellow; feet somewhat darker: wings colourless; veins brown; poisers pale yellow. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

Div. D. *Meig. Dipt. pl. 9, f. 8.*

**SCIOPHILA vitripennis**, *Meig. Dipt. i. 251, 13. Macq. Hist. Nat. Dipt. i. 138, 8.*

a. England.

**LEIA, Meigen.**

Div. B. *Meig. Dipt. i. 255.*

a. *Meig. Dipt. pl. 9, f. 11.*

**LEIA fascipennis**, *Megerle, Meig. Dipt. i. 255, 5. Macq. Hist. Nat. Dipt. i. 135, 2. Zett. Ins. Lapp. 860, 1. Stæg. Kroy. Nat. Tids. iii. 232, 1.*

a. England. From Mr. Walker's collection.

**LEIA fasciola**, *Meig. Dipt. i. 256, 6. L. consobrina, Curt. Brit. Ent. 645, 6.*

a. England. From Mr. Walker's collection.

**LEIA elegans**, *Winnertz.*

a. Prussia. From Mr. Walker's collection.

*LEIA unicolor*, n. s. *Fulva, capite supra rufo-fusco, antennis nigris, pedibus fulvis, femoribus flavis, alis limpidis.*

Body tawny: head reddish brown above: feelers and eyes black; the former tawny at the base: palpi yellow: hips and thighs yellow; shanks and feet dull tawny: wings colourless; veins brown; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*LEIA varia*, n. s. *Flava nigro varia, antennis nigris, pedibus flavis, alis fusco unifasciatis.*

Body yellow: head black between the eyes, which, and the feelers, are also black; the latter are yellow at the base: chest, except the fore part, black: segments of the abdomen bordered with black, which colour extends partially along the sides of the segments: legs yellow; hips and thighs much paler than the shanks and the feet: wings colourless, each with a broad, brown, irregular and interrupted band near its tip; veins brown. Length of the body  $1\frac{3}{4}$  line; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*LEIA trifasciata*, Barnston's MSS. *Capite fulvo, thorace flavo fusco trivittato, abdomine fusco suturis ventrequae flavis, antennis fuscis, pedibus flavis, alis fusco trifasciatis.*

Head tawny: eyes black: feelers brown, yellow at the base: palpi yellow: chest yellow, with three brown stripes; the middle one much in advance of the other two and slightly fissured in front; the side stripes uniting on the scutcheon: a broad brown stripe on the hind chest: abdomen brown; the base of each segment and the whole of the under-side yellow: hips and thighs pale yellow; shanks and feet darker: wings colourless, with three brown bands, which are much interrupted and very irregular, the first about the middle of the wing, the second near the tip, which is occupied by the third; veins brown; poisers yellow. Length of the body  $2\frac{1}{4}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*LEIA Winthemii*, Lehmann, *Dissert.* 1822, 39. *Meig. Dipt.* vi. 296, 11. *Zett. Ins. Lapp.* 861, 4. *Stæg. Kroy. Nat. Tids.* iii. 233, 2. *Mycetophila Winthemii*, Macq. *Hist. Nat. Dipt.* i. 133, 20.



*Meig. Dipt.* vii. 48, 69. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 56, 2.

a. England. From Mr. Walker's collection.

*LEIA bimaculata*, *Meig. Dipt.* i. 256, 7. *Macq. Hist. Nat. Dipt.* i. 13. *Stæg. Kroy. Nat. Tids.* 233, 3. *Mycetophila bimaculata*, *Meig. Klass. Zweif.* i. 92, 7.

a. England. From Mr. Walker's collection.

b. *Meig. Dipt. pl.* 9, f. 18.

*LEIA pubescens*, *Walker, Ent. Mag.* iv. 115.

a. England. From Mr. Walker's collection.

### MYCETOPHILA, Meigen.

Div. A. *Meig. Dipt. pl.* 9, f. 15.

a. *Wings with a central spot (Meig. Dipt. vi. 297).*

*MYCETOPHILA lunata*, *Meig. Dipt.* i. 260, 1. *Macq. Hist. Nat. Dipt.* i. 129, 1. *Zett. Ins. Lapp.* 863, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 57, 1. *Stæg. Kroy. Nat. Tids.* iii. 239, 1. *Sciara lunata*, *Fabr. Syst. Antl.* 58, 6. *Latr. Gen. Crust.* iv. 264. *Cons. Gén.* 442.

a. England. From Mr. Walker's collection.

*MYCETOPHILA fuscicornis*, *Meig. Dipt.* i. 261, 2, vi. 297. *Zett. Ins. Lapp.* 863, 2. *Stannius, Obs. Sp. Mycet.* 9, 1. *M. præusta*, *Meig. Dipt.* vi. 298, 31.

a. England. From Mr. Walker's collection.

*MYCETOPHILA arcuata*, *Meig. Dipt.* i. 261, 3. *Zett. Ins. Lapp.* 863, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 58, 2.

a. England. From Mr. Walker's collection.

*MYCETOPHILA lineola*, *Meig. Dipt.* i. 262, 4, t. 9, f. 15. *Macq. Hist. Nat. Dipt.* i. 129, 3.

a. England. From Mr. Walker's collection.

*MYCETOPHILA signata*, *Meig. Dipt.* vi. 298, 32. *Stann. Isis*, 1830, 757. *Obs. Sp. Myc.* 15, 7. *M. distigma*, *Meig.*, var. *Stann. Obs. Sp. Myc.* 15, 7.

a. England. From Mr. Walker's collection.

*MYCETOPHILA luctuosa*, Meig. *Dipt.* vi. 299, 34. *Stann. Obs. Sp. Myc.* 13, 5. *Steg. Kroy. Nat. Tids.* iii. 240, 2.

a. England. From Mr. Walker's collection.

*MYCETOPHILA biusta*, Hoffmannsegg, Meig. *Dipt.* i. 271, 26. *M. amabilis*? Leon Dufour, *Ann. Sci. Nat. 2de serie*, xii. 23, 2, pl 1, f. 19. *M. pictula*? Meig. *Dipt.* vi. 299, 36. *Stann. Isis* 1830, 755. *Obs. Sp. Myc.* 15, 8.

a. England. From Mr. Walker's collection.

*MYCETOPHILA distigma*, Meig. *Dipt.* vi. 298, 33.

a. England. From Mr. Walker's collection.

*MYCETOPHILA humeralis*, Wiedemann, *Zool. Mag.* i. 68, 12. *M. pusilla*, Meig. *Dipt.* vi. 300, 38.

a. England. From Mr. Walker's collection.

*MYCETOPHILA lutea*, Meig. *Dipt.* i. 263, 7. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 58, 3. *Leia lutea*, Meig. *Dipt.* vi. 297.

a. England. From Mr. Walker's collection.

*MYCETOPHILA reciproca*, n. s. *Nigra, abdomine flavo fasciato, antennis pedibusque fuscis, femoribus flavo cinctis, tibiis fulvis, alis subfulvis fusco maculatis et fasciatis.*

Body black: hind borders of the abdominal segments yellow: feelers brown, yellow at the base: palpi yellow: legs brown; thighs yellow, brown at the base and at the tips; shanks dark tawny, very bristly; fore legs yellow; their feet brown, tawny at the base: wings slightly tawny, with a brown spot before the middle of the fore border, and a paler irregular curved band near the tip, which is also brown; veins brown; poisers yellow. Length of the body 2 lines; of the wings 4 lines.

a. England. From Mr. Walker's collection.

*MYCETOPHILA ocellus*, n. s. *Fusca, antennis fuscis, pedibus fulvis, tibiis apice tarsisque fuscis, alis subfulvis fusco unimaculatis, apice subfuscis et albido unimaculatis.*

Body brown: eyes black: feelers brown: legs tawny; shanks very bristly, their tips and the feet brown: wings slightly tawny, with a brown spot near the fore border before the middle, and of a paler brown colour for one-third of their length from the tip; this brown hue includes an oval colourless spot, and extends more or less along the hind border of the wing; veins black; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. England. From Mr. Walker's collection.

**MYCETOPHILA ornatcollis**, *Megerle, Meig. Dipt. i. 269, 19, vi. 297. Macq. Hist. Nat. Dipt. i. 5. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 63, 19. Stæg. Kroy. Nat. Tids. iii. 250, 14.*  
*a. England. From Mr. Walker's collection.*

**MYCETOPHILA bifasciata**, *Barnston's MSS. Nigra, scutello ferrugineo, abdomine nigro-fusco suturis fulvis, antennis nigris, pedibus fusco variis, alis cinereis fusco nebulosis.*

Head and chest black, clothed with short tawny down: eyes and feelers black, the latter ferruginous at the base: scutcheon ferruginous: abdomen brownish black; hind borders of the segments tawny; feet, thighs at the base and at the tips, and tips of the hind hips, brown: wings somewhat gray, clouded with brown below the fore border about the middle and near the tip, which is also indistinctly clouded with gray; veins brown; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

*a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.*

**MYCETOPHILA propinqua**, *n. s. Rufo-fulva flavo hirta, thorace fusco bivittato, abdomine rufo-fusco suturis fulvis, antennis fulvis apice fuscis, pedibus flavis, femoribus apice fulvis, tarsis fuscis, alis subfulvis fusco bifasciatis.*

Head tawny, very thickly clothed with yellow hairs: palpi tawny: eyes black: feelers tawny, brown towards the tips: chest reddish tawny, with a short brown stripe on each side: hind chest pale tawny; its three reddish lobes covered with a white bloom: abdomen reddish brown, clothed with yellow hairs; hind borders of the segments tawny: legs yellow; tips of the thighs tawny; shanks darker than the thighs; feet brown, tawny towards the base: wings pale tawny, especially towards the fore border, and adorned with two brown bands, of which the one nearest to the wing-tip is continued along the fore border of the wing to the tip, and is a little broader, but hardly longer or more irregular than the other; veins tawny; poisers yellow. Length of the body 2 lines; of the wings 5 lines.

*a. Nova Scotia. From Lieut. Redman's collection.*

**MYCETOPHILA contigua**, *n. s. Rufo-fusca flavo hirta, capite fulvo, thoracis margine antico lateribusque flavis, abdominis segmentis flavo fasciatis, antennis fuscis, pedibus flavis, femoribus apice fuscis, tibiis apice tarsisque fuscis, alis fusco bifasciatis.*

Body clothed with short yellow hairs: head tawny: eyes black: palpi tawny: feelers brown, tawny at the base: chest reddish brown, yellow on each side in front: abdomen reddish brown; hind border

of each segment pale yellow: legs pale yellow; tips of hind thighs brown; feet and tips of shanks dull tawny: wings pale tawny, adorned with two brown bands, of which the one nearest to the wing-tip is much longer and more irregular than the other; veins dark tawny; poisers bright tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 4 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*MYCETOPHILA læta*, n. s. *Rufo-fusca, flavo hirta, thorace antice fulvo postice flavo vario, abdomine flavo quinque fasciato, antennis fulvis, femoribus flavis, tibiis fulvis, metafemoribus apice tarsisque fuscis, alis fusco bifasciatis.*

Body thickly clothed with yellow hairs: head brown: eyes black: palpi tawny: feelers dull tawny, yellow at the base: chest bright tawny; its hind part pale reddish brown and varied with yellow: abdomen reddish brown, with five yellow bands along the sutures of the segments: hips and thighs pale yellow; tips of hind thighs brown; shanks pale tawny; feet brown: wings slightly tawny, especially towards the fore border, and adorned with two brown bands, of which the one nearest to the wing-tip is much larger and more irregular than the other; veins tawny; poisers white. Length of the body  $1\frac{1}{4}$  line; of the wings 4 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*MYCETOPHILA parva*, Barnston's MSS. *Rufo-fusca, thorace fulvo vario, pectore flavo, antennis fuscis, pedibus flavis femoribus apice tarsisque fuscis, tibiis fulvis, alis subcinereis fusco bimaculatis.*

Head brown: eyes black: palpi tawny: feelers brown, yellow at the base: chest reddish brown, varied with tawny on each side: breast yellow: abdomen reddish brown: hips and thighs yellow, tips of the latter brown; shanks dull tawny; feet brown: wings slightly gray, with two brown spots beneath the fore border; the one nearest to the tip of the wing is larger and more irregular than the other; veins brown; poisers yellow. Length of the body  $1\frac{1}{4}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. *Wings unspotted* (Meig. Dipt. vi. 297).

*MYCETOPHILA punctata*, Meig. Dipt. i. 264, 8. Macq. Hist. Nat. Dipt. i. 130, 7. Stæg. Kroy. Nat. Tids. iii. 247, 12. M. semicincta? Meig. Dipt. i. 264, 9. M. cunctans? Wied. Meig.

- Dipt.* i. 264, 10. *M. trivialis?* *Meig. Dipt.* vi. 301, 41. *Note.*—*Stannius* gives these three names as synonyms, *Isis*, 1830, 754, *Obs. Sp. Myc.* 21, 18. *Sciara striata*, *Fabr. Syst. Anth.* 58, 5.  
a. England.
- MYCETOPHILA fenestralis*, *Hoffmansegg, Meig. Dipt.* i. 265, 11, vi. 297. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 61, 10. *Stann. Obs. Sp. Myc.* 19, 16, f. 2. *M. domestica?* *Meig. Dipt.* vi. 303, 48. *M. rufa?* *Macq. Dipt. Nord.* 94, 12. *Note.*—*Stannius* gives these two names as synonyms.  
a. England. From Mr. Walker's collection.
- MYCETOPHILA lugens*, *Wiedemann, Meig. Dipt.* i. 269, 20. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 63, 20. *M. ornaticollis*, var. *Stæg. Kroy. Nat. Tids.* iii. 250, 14.  
a. England. From Mr. Walker's collection.
- MYCETOPHILA sciarina*, *Meig. Dipt.* vi. 300, 40. *Stæg. Kroy. Nat. Tids.* iii. 253, 17.  
a. England. From Mr. Walker's collection.
- MYCETOPHILA nigra*, *Meig. Dipt.* i. 270, 23, *Macq. Hist. Nat. Dipt.* i. 131, 15. *Zett. Ins. Lapp.* 866, 15. *Bouché, Naturg. Ins.* 37, 38.  
a. England.
- MYCETOPHILA trivialis*, *Meig. Dipt.* vi. 301, 41.  
a. England. From Mr. Walker's collection.
- MYCETOPHILA pallidicornis*, *Macq. Dipt. Nord.* i. 36, 7. *Meig. Dipt.* vii. 43, 52.  
a. England. From Mr. Walker's collection.
- MYCETOPHILA flavipes*, *Macq. Dipt. Nord.* i. 36, 8. *Hist. Nat. Dipt.* i. 130, 9. *Meig. Dipt.* vii. 44, 53.  
a. England. From Mr. Walker's collection.
- MYCETOPHILA intersecta*, *Hoffmansegg, Meig. Dipt.* i. 271, 25. *Stann. Obs. Sp. Myc.* 24, 22, f. 3. *M. cingulata?* *Meig. Dipt.* vi. 302, 44.  
a. England. From Mr. Walker's collection.
- MYCETOPHILA pygmæa*, *Macq. Dipt. Nord.* i. 37, 10. *Hist. Nat. Dipt.* i. 131, 11. *Meig. Dipt.* vii. 44, 54.  
a. England. From Mr. Walker's collection.

Div. B. *Meig. Dipt. pl. 9, f. 19.*

*MYCETOPHILA nemoralis*, *Meig. Dipt. i. 265, 12.* *Leia nemoralis*,  
*Macq. Hist. Nat. Dipt. i. 136, 5.*

a. England. From Mr. Walker's collection.

Div. C. *Meig. Dipt. pl. 9, f. 20.*

*MYCETOPHILA lateralis*, *Meig. Dipt. i. 266, 13.* *Macq. Hist. Nat. Dipt. i. 134, 25.* *Zett. Ins. Lapp. 865, 8.* *Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 61, 11.* *M. guttiventris*, var. *Stann. Obs. Sp. Myc. 25, 23.* *Stæg. Kroy. Nat. Tids. iii. 260, 29.* *M. seriata?* *Meig. Dipt. vi. 302, 45.*

a. England. From Mr. Walker's collection.

b. Hammerfest, Finmark. From Mr. Walker's collection.

*MYCETOPHILA fusca*, *Meig. Dipt. i. 266, 14, vi. 297.* *Macq. Hist. Nat. Dipt. i. 134, 26.* *Zett. Ins. Lapp. 865, 9.* *Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 61, 12.* *Stæg. Kroy. Nat. Tids. iii. 262, 33.* *Tipula fungorum*, *Deg. Ins. vi. 142, 14, t. 22, f. 1—13.* *Latr. Hist. Nat. Cr. xiv. 292.* *Gen. Crust. iv. 264.*

a. England. From Mr. Walker's collection.

*MYCETOPHILA semifusca*, *Meig. Dipt. i. 267, 15.*

a. England. From Mr. Walker's collection.

*MYCETOPHILA Leptura*, *Meig. Dipt. vi. 301, 42.* *Stæg. Kroy. Nat. Tids. iii. 260, 30.*

a. England. From Mr. Walker's collection.

b. France.

*MYCETOPHILA guttiventris*, *Meig. Dipt. vi. 301, 43.* *Stæg. Kroy. Nat. Tids. iii. 260, 29.* *Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 62, 14.*

a. England. From Mr. Walker's collection.

*MYCETOPHILA cingulata*, *Meig. Dipt. vi. 302, 44.* *Macq. Hist. Nat. Dipt. i. 134, 27.* *Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 62, 15.*

a. England. From Mr. Walker's collection.

*MYCETOPHILA seriata*, *Meig. Dipt. vi. 302, 45.* *Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 62, 16.*

a. England. From Mr. Walker's collection.

*MYCETOPHILA flava*, Walker, *Ent. Mag.* iv. 117.

a. England. From Mr. Walker's collection.

*MYCETOPHILA ferruginea*, Walker, *Ent. Mag.* iv. 117.

a. England. From Mr. Walker's collection.

Div. D. *Meig. Dipt. pl.* 9, f. 21.

*MYCETOPHILA discoidea*, *Meig. Dipt.* i. 268, 17. *Macq. Hist. Nat.*

*Dipt.* i. 131, 13. *Stæg. Kroy. Nat. Tids.* iii. 255, 21.

a. England. From Mr. Walker's collection.

*MYCETOPHILA sericea*, *Macq. Dipt. Nord.* i. 39, 14. *Hist. Nat.*

*Dipt.* i. 133, 22. *Meig. Dipt.* vii. 49, 71.

a. England. From Mr. Walker's collection.

*MYCETOPHILA sericoma*, *Meig. Dipt.* vi. 302, 46. *Gim. Bull. Soc.*

*Imp. Nat. Mosc.* 1846, xix. 2, 63, 18.

a. England. From Mr. Walker's collection.

*MYCETOPHILA pallida*, *Stann. Obs. Sp. Myc.* 25, 25, f. 7.

a. England. From Mr. Walker's collection.

b. Alten, Finmark. From Mr. Walker's collection.

*MYCETOPHILA bimaculata*, n. s. *Fulva fusco varia, thorace nigro bimaculato, antennis pedibusque fuscis, alis fulvis.*

Body tawny: head brown between the eyes, which are black: palpi yellow: feelers brown, tawny at the base: a large black oval spot on each side of the chest, whose hinder part is varied with brown: abdomen brown, dull tawny at the base and along the hind border of each segment: legs tawny; feet brown; hips and thighs paler than the shanks: wings tawny; veins brown; poisers yellow. Length of the body  $1\frac{1}{2}$ — $1\frac{3}{4}$  line; of the wings 2— $2\frac{1}{4}$  lines.

a. East Indies. Presented by Capt. Parry.

*MYCETOPHILA plebeia*, n. s. *Fulva, capite nigro, thorace nigro trivittato, antennis nigris, femoribus flavis, tibiis fulvis, tarsis fuscis, alis subcinereis.*

Head black: palpi tawny: feelers black, yellow at the base: chest tawny, with three broad black stripes, which occupy nearly all the back, and are united behind; the middle one is much in advance of the other two: abdomen wanting: hips and thighs pale yellow; shanks dull pale tawny; feet brown: wings slightly gray; veins

brown; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

Div. E. Meig. Dipt. pl. 9, f. 18.

MYCETOPHILA domestica, Meig. Dipt. vi. 303, 48.

a. England. From Mr. Walker's collection.

MYCETOPHILA crassicornis, Stann. Obs. Sp. Myc. 22, 20.

a. England. From Mr. Walker's collection.

MYCETOPHILA obscura, n. s. *Fusca, capite subtus scutello pectore abdominisque segmentis basi flavis, thorace postico fulvo vittato, antennis fuscis, pedibus flavis, alis limpidis.*

Body brown: head yellow beneath: eyes black: palpi yellow: feelers brown, yellow at the base: chest with a tawny stripe forked in front on its hinder part; scutcheon and breast yellow: abdominal segments yellow at the base: legs yellow; hips very pale yellow; feet dull yellow: wings colourless; veins brown; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

MYCETOPHILA despecta, n. s. *Fusca, thorace ferrugineo disco rufosusco, abdominis suturis ventrique ferrugineis, antennis fuscis, pedibus flavis, alis limpidis.*

Head and palpi brown: eyes black: feelers brown, yellow at the base: chest ferruginous, reddish brown on the disk: abdomen brown; ventral segments and hind borders of dorsal segments ferruginous: legs yellow; feet brown: wings colourless; veins tawny; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

MYCETOPHILA apicalis, n. s., mas. *Nigra, longa, cinereo pubescens, abdominis apice fulvo, antennis cinereis thorace multo longioribus, pedibus fusco-fulvis, alis subcinereis.*

Body long, black, clothed with gray down: tip of the abdomen tawny: feelers gray, much longer than the chest: legs tawny; trochanters black; shanks and feet brown: wings slightly gray; veins



and poisers tawny. Length of the body 3 lines; of the wings 5 lines.

a. Hammerfest, Finmark. From Mr. Walker's collection.

*MYCETOPHILA borealis*, n. s., mas. *Nigra, abdominis segmentis rufo marginatis, pedibus fusco-fulvis, alis subcinereis.*

Body black, clothed with gray down: hind borders of abdominal segments dull red: feelers black, not longer than the chest: hips pale red; trochanters black; thighs pale tawny; shanks dull tawny; feet brown: wings slightly gray; veins brown; poisers pale tawny. Length of the body  $2\frac{1}{4}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. Hammerfest, Finmark. From Mr. Walker's collection.

*MYCETOPHILA cincticornis*, mas. *Nigra, cinereo pubescens, antennis nigris basi fulvo-cinctis, pedibus fusco-fulvis, alis subcinereis.*

Body black, clothed with gray down: feelers black, much longer than the chest; third, fourth and fifth joints pale tawny: hips and thighs pale tawny; trochanters black; shanks and feet brown: wings slightly gray; veins and poisers tawny. Length of the body  $2\frac{1}{4}$  lines; of the wings 4 lines.

a. Alten, Finmark. From Mr. Walker's collection.

b. Isle of Soröe, Finmark. From Mr. Walker's collection.

*MYCETOPHILA concolor*, fem. *Nigra, cinereo pubescens, antennis nigris, pedibus fusco-fulvis, alis subcinereis.*

Body black, clothed with gray down: feelers black, not longer than the chest: legs pale tawny; trochanters black; shanks and feet brown: wings slightly gray; veins brown; poisers pale tawny. Length of the body  $1\frac{1}{4}$  line; of the wings 3 lines.

a. Hammerfest, Finmark. From Mr. Walker's collection.

#### Div. F. Meig. Dipt. pl. 65, f. 12.

*MYCETOPHILA notata*, Stann. Obs. Sp. Myc. 17, 18. *M. nigra*, Meig. Dipt. vi. 297, 304, 23. Stæg. Kroy. Nat. Tids. iii, 265, 39.

a. England. From Mr. Walker's collection.

b. ——— ? From Mr. Children's collection.

*MYCETOPHILA nitida*, Meig. Dipt. vi. 309, 49. Stann. Obs. Sp. Myc. 18, 15.

a. England. From Mr. Walker's collection.

CORDYLA, *Meigen*.

CORDYLA fasciata, *Meig. Dipt.* vi. 304. C. fulveola, *Haliday, Ann. Nat. Hist.* 1839, 183.

a. England. From Mr. Walker's collection.

## f. LUGUBRI.

ZYGONEURA, *Meigen*.

ZYGONEURA sciarina, *Winthelm, Meig. Dipt.* vi. 305, 1, pl. 65, f. 15. *Macq. Hist. Nat. Dipt.* i. 158, 1.

a. England. From Mr. Walker's collection.

SCIARA, *Fabricius*.

Div. A. *Meig. Dipt.* vi. 305. *Macq. Hist. Nat. Dipt.* i. 147.

a. *Poisers black or brown.*

SCIARA præcipua, n. s., mas. *Atra, antennis pedibusque nigris, alis nigro-piceis.*

Body black: feelers and legs also-black: wings dark piceous, especially at the base and along the fore border, which is convex from the base to beyond the middle; veins of the fore border black; the rest piceous and more slender; poisers black. Length of the body  $3\frac{1}{2}$  lines; of the wings 9 lines.

a. Brazil. Presented by Sir C. Stewart.

SCIARA cognata, n. s., mas. *S. præcipuæ coloribus sed alarum venis structura diversa.*

Body black: feelers and legs also black: wings piceous, especially along the base of the fore border, which is convex, as in *S. præcipua*: fore border veins black; the rest piceous and slender; the branches of the fork of the third longitudinal vein are less diverging from each other than in *S. præcipua*, and the lower branch is also more parallel to the fourth vein in the latter part of its course; poisers black. Length of the body 3 lines; of the wings 8 lines.

a. Bogota.

**SCIARA propinqua**, n. s. \* *Nigro-fusca, antennis nigris, pedibus piceis, alis nigro-piceis.*

Body deep brown: feelers black: legs piceous: wings dark piceous, especially towards the base, when the fore border is convex; fore border veins black; the rest piceous and more slender. Length of the body 3 lines; of the wings 8 lines.

a. ——— ?

**SCIARA ruficollis**, n. s. *Capite nigro, thorace rufo nigro bivittato, abdomine piceo, antennis pedibusque piceis, femoribus fulvis, alis fuscis.*

Resembles *Thomæ* in shape, but is larger. Head black: chest red, with a black stripe on each side: abdomen piceous: feelers piceous, tawny at the base: legs piceous; thighs tawny: wings brown, darker along the fore border; first and second longitudinal veins piceous; the rest tawny; poisers piceous. Length of the body 2½ lines; of the wings 6 lines.

a. Congo.

**SCIARA Thomæ**, *Fabr. Syst. Antl.* 56, 1. *Meig. Dipt.* i. 278, 1, vi. 306. *Macq. Hist. Nat. Dipt.* i. 147, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 64, 1. *Stæg. Kroy. Nat. Tids.* iii. 282, 1. *S. lateralis*, *Megerle, Meig. Dipt.* i. 279, 3, vi. 306. *Tipula Thomæ*, *Fabr. Sp. Ins.* ii. 410, 54. *Mant. Ins.* ii. 327, 67. *Ent. Syst.* iv. 250, 78. *Gmel. Ed. Syst. Nat.* v. 2823, 39. *Tipule, &c., Geoff. Ins.* ii. 559, 12. *Panz. Faun. Germ.* lix. 9. *Hirtea Thomæ*, *Fabr. Ent. Syst. Suppl.* 552, 8. *Molobrus Thomæ*, *Latr. Gen. Crust.* iv. 263. *Cons. Gén.* 442.

a. England.

b. ——— ? From Mr. Children's collection.

**SCIARA Morio**, *Fabr. Syst. Antl.* 57, 2. *Meig. Dipt.* i. 278, 2, vi. 306. *Macq. Hist. Nat. Dipt.* i. 147, 2, pl. 4, f. 1. *Dipt. Nord.* i. 86, 1. *Zett. Ins. Lapp.* 825. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 825, 1. *Blanch. Hist. Nat. An. Art.* iii. 573. *Stæg. Kroy. Nat. Tids.* iii. 282, 2. *S. florilega*, *Meig. Klass. Zweif.* i. 98, 2. *Tipula Thomæ*? *Linn. Syst. Nat.* ii. 976, 37. *T. forcipata*, *Fabr. Sp. Ins.* ii. 410, 58. *Ent. Syst.* iv. 250, 81. *Gmel. Syst. Nat.* v. 2824. 104. *Hirtea forcipata*, *Fabr. Ent. Syst. Suppl.* 553, 11. *Syst. Antl.* 55, 16. *Rhagio Morio*, *Fabr. Ent. Syst.* iv. 275, 18.

a. England:

*SCIARA rufiventris*, *Macq. Hist. Nat. Dipt.* i. 148, 3. *S. bicolor*?  
*Megerle, Meig. Dipt.* i. 284, 19. *Stæg. Kroy. Nat. Tids.* iii.  
 283, 8.

a. England.

*SCIARA vitripennis*, *Hoffmansegg, Meig. Dipt.* i. 281, 9. *Macq. Hist. Nat. Dipt.* i. 148, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* i. 65, 3.

a. England. From Mr. Walker's collection.

b. France.

*SCIARA exigua*, *Say, Long's Exped. to St. Peter's River, App.* 367, 4. *Wied. Auss. Zweif.* i. 69, 6.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Baruston, Esq.

*SCIARA robusta*, n. s., mas. et fem. *Nigra, lateribus rufo-vittatis, pedibus piceis, alis nigris.*

Body black, stout, pubescent: a dark red line along each side: feelers black, robust: legs dark piceous, rather thick: wings black, as are also their veins and the poisers. Length of the body 2 lines; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Fall's, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SCIARA atrata*, *Say, Long's Exped. to St. Peter's River, App.* 366, 1. *Wied. Auss. Zweif.* i. 70, 9.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

#### b. *Poisers pale.*

*SCIARA annulata*, *Meig. Dipt.* i. 284, 18, vi. 306. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 65, 4.

a. England. From Mr. Walker's collection.

*SCIARA hyalipennis*, *Meig. Dipt.* i. 285, 21. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 66, 6. *Stæg. Kroy. Nat. Tids.* iii. 283, 9.

a. England. From Mr. Walker's collection.

*SCIARA brunnipes*, *Meig. Dipt.* i. 286, 25, vi. 306. *Macq. Hist. Nat. Dipt.* i. 148, 5. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 66, 7.

a. England. From Mr. Walker's collection.

*SCIARA caudata*, n. s., fem. *Atra, abdomine longissimo, antennis nigris, pedibus fusco-fulvis, alis subfuscis.*

Body black: chest shining: abdomen very long, tapering towards the tip, full six times the length of the chest: feelers black, longer than the chest: hips and thighs bright tawny; trochanters, shanks and feet brown: wings light brown; veins brown; poisers tawny. Length of the body 3 lines: of the wings 4 lines.

a. England. From Mr. Walker's collection.

*SCIARA nigropicea*, n. s., fem. *Nigro-cinerea, thoracis lateribus livido vittatis, abdomine, antennis pedibusque piceis, femoribus fulvis, alis fuscis.*

Head and chest grayish black: a livid (?) line along each side of the chest: abdomen piceous: feelers and legs piceous; thighs dull dark tawny: wings brown; fore border veins piceous, the rest tawny; poisers piceous. Length of the body  $1\frac{1}{4}$  line; of the wings 4 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*SCIARA punctata*, n. s., fem. *Nigro-picea, capite nigro, abdomine rufo lateribus nigro maculatis, antennis piceis, pedibus fulvis, alis cinereis.*

Head black: feelers piceous: chest very dark piceous: abdomen dull red, with a row of black spots on each side: legs tawny: wings gray; fore border veins dark brown, the rest as usual paler and more slender; poisers tawny. Length of the body  $1\frac{1}{4}$  line; of the wings  $3\frac{1}{2}$  lines.

a. North America. Presented by the Entomological Club.

*SCIARA lurida*, n. s. *Nigra, abdomine rufo-fusco, antennis nigris, pedibus piceis, femoribus rufo-fuscis, alis fuscis.*

Body black: feelers black: abdomen reddish brown: legs piceous; thighs reddish brown: wings brown; the first and second longitudinal veins dark brown, the rest pale brown; poisers piceous. Length of the body  $1\frac{1}{2}$  lines; of the wings 3 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*SCIARA perpusilla*, n. s. *Picca, gracilis, antennis nigris, pedibus fuscis, femoribus fulvis, alis subcinereis.*

Body piceous, small and slender: feelers black: legs brown; thighs tawny: wings slightly gray; the costal veins dark brown,

the rest paler and more slender; poisers tawny. Length of the body  $\frac{3}{4}$  line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SCIARA* Bore, n. s. *Nigra, thorace cinereo trivittato, abdomine rufescente, antennis nigris, pedibus fusco-fulvis, alis subfuscis.*

Body black: chest with three gray stripes: abdomen dull dark red; fifth and sixth segments piceous, seventh tawny: feelers black, much longer than the chest; first joint piceous, second ferruginous: legs bright tawny; trochanters and shanks dull tawny; feet dark brown: wings light brown; veins dark brown; poisers light tawny. Length of the body 2 lines; of the wings 4 lines.

a. Hammerfest, Finmark. From Mr. Walker's collection.

Div. B. *Meig. Dipt.* vi. 306. *Macq. Hist. Nat. Dipt.* i. 148.

a. *Poisers black.*

*SCIARA* præcox, *Meig. Dipt.* i. 279, 4, vi. 306. *Macq. Hist. Nat. Dipt.* i. 148, 7. *Stæg. Kroy. Nat. Tids.* iii. 284, 11.

a. England. From Mr. Walker's collection.

*SCIARA* fuscipes, *Meig. Dipt.* i. 280, 5, vi. 306. *Zett. Ins. Lapp.* 826, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 66, 8. *Stæg. Kroy. Nat. Tids.* iii. 284.

a. England.

*SCIARA* fucata, *Megerle, Meig. Dipt.* i. 280, 6, vi. 306. *Macq. Hist. Nat. Dipt.* i. 149, 11. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 68, 12. *Stæg. Kroy. Nat. Tids.* iii. 284, 12.

a. England. From Mr. Walker's collection.

*SCIARA* nitidicollis, *Megerle, Meig. Dipt.* i. 281, 8. *Macq. Hist. Nat. Dipt.* i. 149, 8. *Zett. Ins. Lapp.* 827, 7. *Stæg. Kroy. Nat. Tids.* iii. 284, 13.

a. England. From Mr. Walker's collection.

*SCIARA* fenestrata, *Meig. Dipt.* i. 281, 10. *Stæg. Kroy. Nat. Tids.* iii. 284, 14.

a. England. From Mr. Walker's collection.

*SCIARA* fuscipennis, *Meig. Dipt.* i. 282, 11. *Stæg. Kroy. Nat. Tids.* iii. 284, 15.

a. England. From Mr. Walker's collection.

*SCIARA pulicaria*, *Hoffmansegg, Meig. Dipt. i. 282, 12, vi. 306. Macq. Hist. Nat. Dipt. i. 149, 13. Zett. Ins. Lapp. 827, 10. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 67, 9. Stæg. Kroy. Nat. Tids. iii. 285, 19.*

a. England. From Mr. Walker's collection.

*SCIARA scatopsoides, Meig. Dipt. i. 282, 13.*

a. England. From Mr. Walker's collection.

*SCIARA minima, Meig. Dipt. i. 282, 14. Macq. Hist. Nat. Dipt. i. 149, 12. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 67, 10.*

a. England. From Mr. Walker's collection.

*SCIARA sylvatica, Meig. Dipt. i. 283, 15, vi. 306. Zett. Ins. Lapp. 827, 11. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 67, 11. Stæg. Kroy. Nat. Tids. iii. 285, 17.*

a. England. From Mr. Walker's collection.

*SCIARA nervosa, Meig. Dipt. i. 283, 16. Stæg. Kroy. Nat. Tids. iii. 284, 16. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 68, 13.*

a. England. From Mr. Walker's collection.

b. Hammerfest, Finmark. From Mr. Walker's collection.

#### b. *Poisers pale.*

*SCIARA flavipes, Panz. Faun. Germ. ciii. 15. Meig. Dipt. i. 283, 17, vi. 306. Macq. Hist. Nat. Dipt. i. 149, 14. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 68, 14. Stæg. Kroy. Nat. Tids. iii. 286, 27. Græn. Antl. 2, i. 357, 20.*

a. England.

*SCIARA pallipes, Meig. Dipt. i. 284, 20. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 68, 15. Tipula flavipes, Fabr. Ent. Syst. iv. 248, 69. Meig. Klass. Zweif. i. 37, r. Chironomus pallipes, Fabr. Syst. Antl. 45, 37.*

a. England.

*SCIARA aprilina, Meig. Dipt. i. 285, 22. Zett. Ins. Lapp. 828, 15. Stæg. Kroy. Nat. Tids. iii. 286, 23.*

a. England. From Mr. Walker's collection.

b. Hammerfest, Finmark. From Mr. Walker's collection.

*SCIARA pusilla*, Meig. *Dipt.* i. 286, 23, vi. 306. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 69, 16. *Stæg. Kroy. Nat. Tids.* iii. 286, 26.

a. England. From Mr. Walker's collection.

*SCIARA longipes*, Meig. *Dipt.* i. 286, 24. *Macq. Hist. Nat. Dipt.* i. 150, 15. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 69, 17. *Stæg. Kroy. Nat. Tids.* iii. 286, 29.

a. England. From Mr. Walker's collection.

*SCIARA nemoralis*, Meig. *Dipt.* i. 287, 27. *Stæg. Kroy. Nat. Tids.* iii. 286, 25.

a. England. From Mr. Walker's collection.

*SCIARA polita*, Say, *Long's Exped. to St. Peter's River*, App. 366, 2. *Wied. Auss. Zweif.* i. 70, 10.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SCIARA abbreviata*, Barnston's MSS. *Nigra, abdomine fulvo, antennis piceis, pedibus fuscis, femoribus fulvis, alis limpidis.*

Body black: abdomen tawny: feelers piceous: thighs tawny; shanks and feet brown: wings colourless; veins pale brown; poisers tawny. Length of the body 1 line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SCIARA rufa*, n. s., fem. *Rufa, antennis fuscis, pedibus fulvis, alis subcinereis.*

Body dull red: eyes black: feelers brown: legs dull tawny; feet darker: wings slightly gray, iridescent; veins of the fore border brown, the rest dull yellow; poisers pale yellow. Length of the body 1 line; of the wings 2 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*SCIARA gracilis*, n. s., mas. *Fulvo-fusca, gracilis, capite nigro-fusco, antennis pedibusque gracillimis, alis sublimpidis.*

Body pale brown, very slender: head dark brown: abdomen about twice the length of the chest: eyes black: feelers brown, very slender, a little shorter than the body: legs pale brown, long and slender; hips and thighs tawny: wings slightly tinged with brown; veins and poisers dull tawny. Length of the body  $\frac{3}{4}$ —1 line; of the wings  $1\frac{1}{2}$ —2 lines.

a. England. From Mr. Walker's collection.



*SCIARA compressa*, n. s. fem. *Fulva, capite nigro, thorace angusto, antennis nigris, pedibus fulvis, alis limpidis.*

Body dull tawny, very slender: head black: chest extremely narrow: abdomen about thrice the length of the chest: feelers black, as long as the chest: legs pale tawny; shanks darker than the thighs; feet brown: wings colourless; veins and poisers tawny. Length of the body  $1\frac{1}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. England. From Mr. Walker's collection.

*SCIARA brevipennis*, n. s., fem. *Fulva, capite nigro, abdominis segmentorum marginibus posticis nigro-fuscis, antennis nigris, pedibus fusco-fulvis, alis parvis.*

Body dark tawny: head black: abdomen about thrice the length of the chest, broader at the base than that of *S. compressa*; hind borders of the segments blackish: feelers black, a little longer than the chest: legs dark tawny; feet brown: wings very narrow, about half the length of the body; veins and poisers tawny. Length of the body  $\frac{3}{4}$  line; of the wings  $\frac{3}{4}$  line.

a. England. From Mr. Walker's collection.

#### LESTREMIA, Macquart.

*LESTREMIA leucophæa*, Meig. Dipt. vi. 308, 1. Macq. Hist. Nat. Dipt. i. 158, 2. *Sciara leucophæa*, Meig. Dipt. i. 288, 31. *Tipula juniperina*? Fabr. Sp. Ins. ii. 411, 60. Ent. Syst. iv. 251, 83. *Chironomus juniperinus*? Fabr. Syst. Antl. 47, 42. *Diamesa*, Meig. Dipt. pl. 65, f. 16, 17.

a. England. From Mr. Walker's collection.

#### g. LATIPENNES.

#### SIMULIUM, Latreille.

*SIMULIUM ornatum*, Meig. Dipt. i. 290, 1. Macq. Hist. Nat. Dipt. i. 173, 1, pl. 4, f. 15. Guer. Icon. Regn. Anim. Ins. pl. 93, f. 6. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 69, 1. *S. trifasciatum*, Curt. Brit. Ent. 765. *Atractocera regelationis*, Meig. Klass. Zweif. i. 94, 1.

a. England. From Mr. Walker's collection.

b. France.

**SIMULIUM reptans**, *Latr. Hist. Nat. Cr. et Ins.* xiv. 294. *Gen. Crust.* iv. 269. *Cons. Gén.* 442. *Meig. Dipt.* i. 291, 2, vi. 309. *Fries, Monogr. Simul. Suec.* 13, 1, *pl.* 1, *f.* 6, 7. *Macq. Hist. Nat. Dipt.* i. 174, 3. *Dahlb. Scand. Ins. Lund.* 1837. *Zett. Ins. Lapp.* 802, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 70, 2. *Blanch. Hist. Nat. An. Art.* iii. 575. *S. sericeum*, *Meig. Dipt.* i. 295, 8. *S. elegans*, *Meig. Dipt.* i. 296, 9. *Culex reptans*, *Linn. Faun. Suec.* 1893. *Schell. Gen. Mouch. pl.* 38, *f.* 3. *Gmel. Ed. Syst. Nat.* v. 2888, 5. *Fabr. Sp. Ins.* ii. 470, 5. *Mant. Ins.* ii. 364, 7. *Ent. Syst.* iv. 402, 8. *Schrank. Ins. Austr.* 985. *Faun. Boic.* iii. 2569. *Tipula erythrocephala*, *Deg. Ins.* vi. 161, 37, *pl.* 28, *f.* 5, 6. *Scatopse reptans*, *Fabr. Syst. Antl.* 56, 2. *Tipula sericea*, *Linn. Gmel. Syst. Nat.* v. 2827, 58. *Fabr. Sp. Ins.* ii. 412, 67. *Mant. Ins.* ii. *Ent. Syst.* iv. 252, 91. *Chironomus sericeus*, *Fabr. Syst. Antl.* 48, 47. *Scatopse maculata*, *Fabr. Syst. Antl.* 56, 3. *Atractocera argyropeza*, *Meig. Klass. Zweif.* i. 96, 4.

a. England.

b. France.

**SIMULIUM variegatum**, *Hoffmansegg, Meig. Dipt.* i. 292, 3. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 71, 3. *Hirtea livida*, *Schell. Gen. Mouch. pl.* 38, *f.* 3.

a. England.

**SIMULIUM varium**, *Megerle, Meig. Dipt.* i. 292, 4.

a. England.

b. France.

**SIMULIUM lineatum**, *Meig. Dipt.* i. 293, 5. *Macq. Hist. Nat. Dipt.* i. 174, 4. *Atractocera lineata*, *Meig. Klass. Zweif.* i. 95, 2.

a. England. From Mr. Walker's collection.

b. France.

**SIMULIUM marginatum**, *Meig. Dipt.* i. 293, 6. *S. fuscipes*, *Fries, Mon. Sim. Suec.* 13, 1, *pl.* 1, *f.* 6, 7.

a. England.

**SIMULIUM auricomum**, *Megerle, Meig. Dipt.* i. 296, 10.

a. England. From Mr. Walker's collection.

**SIMULIUM latipes**, *Meig. Dipt.* i. 297, 11. *Atractocera latipes*, *Meig. Klass. Zweif.* i. 96, 5. *Simulium aureum*, *Fries, Mon. Sim. Suec.* 16, 3.

a. England. From Mr. Walker's collection.

*SIMULIUM nigrum*, *Meig. Dipt.* i. 297, 12, vi. 310. *Atractocera nigra*, *Meig. Klass. Zweif.* i. 96, 6.

a. England. From Mr. Walker's collection.

b. Lapland. From Mr. Walker's collection.

*SIMULIUM rufipes*, *Meig. Dipt.* vi. 311, 15.

a. England.

*SIMULIUM cinctum*, *Meig. Dipt.* vi. 311, 14.

a. England.

b. France.

*SIMULIUM sericatum*, *Meig. Dipt.* vi. 310, 13.

a. England.

*SIMULIUM pusillum*, *Zett. Ins. Lapp.* 803, 5.

a. Alten, Finmark. From Mr. Walker's collection.

*SIMULIUM decorum*, n. s. *Cinereum, argenteo micans, antennis piceis, pedibus fulvis, femoribus tibiisque piceo fasciatis, tibiis posticis tarsisque posterioribus basi albis, alis limpidis.*

Body gray, adorned with white silky lustre, especially on the sides of the chest and on the breast: feelers piceous: legs tawny; thighs and shanks with irregular piceous bands; feet piceous; fore thighs adorned with white lustre; hind shanks and four hinder feet white at the base: wings colourless; fore border veins pale tawny; the other veins still paler and very indistinct; poisers pale yellow. Length of the body  $1\frac{1}{4}$  line; of the wings  $3\frac{1}{4}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SIMULIUM invenustum*, n. s., mas. *Nigrum, cinereo suffusum, abdomine basi fulvo hirto, antennis piceis, pedibus fulvis, alis limpidis.* Fem.—*Cinereum, antennis nigris, pedibus rufo-cinereis, tarsis nigris.*

Body black, overspread with a grayish bloom: base of the abdomen clothed with tawny hairs: feelers piceous: legs tawny, and clothed with tawny hairs: wings colourless; fore border veins brown; the other veins tawny and slender; poisers piceous. Fem.—Body gray: feelers black: legs reddish gray; feet black. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SIMULIUM cæcutiens*, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

b. Bay of Islands. Presented by Dr. A. Sinclair.

## h. MUSCÆFORMES.

### SCATOPSE, *Geoffroy.*

*SCATOPSE notata*, *Meig. Dipt. i.* 300, 1. *Macq. Hist. Nat. Dipt. i.* 181, 1, *pl.* 4, *f.* 21. *Zett. Ins. Lapp.* 801, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 71, 1, *Blanch. Hist. Nat. An. Art.* iii. 576. *Tipula notata*, *Linn. Faun. Suec.* 1773. *Gmel. Ed. Syst. Nat.* v. 2825, 50. *T. albipennis*, *Fabr. Ent. Syst.* iv. 250, 82. *T. Scathopse*, *Gmel. Syst. Nat.* v. 2827, 112. *Æ Scathopse noir*, *Geoff. Ins.* ii. 545, 1. *T. latrinarum*, *Deg. Ins.* vi. 160, 36, *t.* 28, *f.* 1—4. *Latr. Gen. Crust.* iv. 268. *Cons. Gén.* 442. *Schrank. Faun. Boic.* iii. 2343. *Ins. Austr.* 881. *Hirtea albipennis*, *Fabr. Ent. Syst. Suppl.* 353, 12. *Meig. Klass. Zweif.* i. 105, 1. *Scatopse albipennis*, *Fabr. Syst. Antl.* 55, 1. *Scatops latrinarum*, *Meig. Klass. Zweif.* i. 105, 1. *S. nigra*, *Latr. Hist. Nat. Cr. et Ins.* xiv. 295. *Ceria decemnodia*, *Scop. Ent. Carn.* 950.

a. England.

b. France.

*SCATOPSE nigra*, *Meig. Dipt. i.* 300, 2. *Macq. Hist. Nat. Dipt. i.* 181, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 72, 2.

a. England.

*SCATOPSE punctata*, *Meig. Dipt. i.* 301, 4. *Zett. Ins. Lapp.* 801, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 72, 3.

a. England. From Mr. Walker's collection.

*SCATOPSE minuta*, *Meig. Dipt. i.* 301, 5, vi. 313. *Zett. Ins. Lapp.* 801, 3. *S. dubius*, *Meig. Klass. Zweif.* i. 106, 4.

a. England. From Mr. Walker's collection.

*SCATOPSE infumata*, *Haliday, Ent. Mag.* i. 157.

a. England. From Mr. Walker's collection.

*SCATOPSE leucopeza*, *Meig. Dipt. i.* 301, 3. *Macq. Hist. Nat. Dipt. i.* 182, 5.

a. England. From Mr. Walker's collection.

*SCATOPSE brevicornis*, *Meig. Dipt. vi.* 314, 11.

a. England. From Mr. Walker's collection.

*SCATOPSE veluto*, Loew.\*

a. England. From Mr. Walker's collection.

*SCATOPSE mucronata*.

a. Aix la Chapelle, Prussia. From Mr. Walker's collection.

*SCATOPSE halterata*, Meig. *Dipt.* vii. 55, 16.

a. England. From Mr. Walker's collection.

*SCATOPSE femoralis*, Meig. *Dipt.* vii. 55, 19.

a. England. From Mr. Walker's collection.

*SCATOPSE flavicollis*, Meig. *Dipt.* i. 302, 8. *Macq. Hist. Nat. Dipt.*

i. 182, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2,  
72, 4.

a. England. From Mr. Walker's collection.

*SCATOPSE picca*, Hoffmansegg, Meig. *Dipt.* i. 302, 7, vi. 9.

a. England. From Mr. Walker's collection.

*SCATOPSE nitens*, n. s. *Nigra*, abdomine nigro-æneo, antennis nigris, pedibus piceis, alis subcinereis.

Body black, shining: abdomen coppery-black: feelers black: legs dark piceous: wings slightly gray, hardly fringed; fore border veins tawny, the rest very indistinct; poisers piceous. Length of the body 1 line; of the wings  $2\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SCATOPSE obscura*, n. s. *Nigra*, antennis nigris, pedibus piceis, alis cinereis.

Body black, dimly shining: feelers black: legs piceous: wings gray, fringed; veins and poisers piceous. Length of the body  $\frac{3}{4}$  line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SCATOPSE pusilla*, n. s. *Atra*, antennis nigris, pedibus piceis, alis limpidis.

Body deep black: chest shining, somewhat compressed: feelers black, stout, subclavate: legs dark piceous: wings colourless, fringed; veins pale; poisers piceous. Length of the body  $\frac{1}{2}$  line; of the wings 1 line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## ARTHRIA, Kirby.

ARTHRIA analis, Kirby, *North Amer. Zool. Ins.* 311, 1.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## PENTHETRIA, Meigen.

PENTHETRIA holosericea, Meig. *Dipt.* i. 303. *Macq. Hist. Nat. Dipt.* i. 175, 1, pl. 4, f. 16. *Zett. Ins. Lapp.* 800, 142, 1. *Zeller, Isis*, 1842, 810, 3. *Blanch. Hist. Nat. An. Art.* iii. 575. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 73, 1. *P. funebris*, Meig. *Klass. Zweif.* i. 104, 1. *Lutr. Gen. Crust.* iv. 267. *Cons. Gén.* 442.

- a. Aix la Chapelle. From Mr. Walker's collection.  
b. France ?

PENTHETRIA atra, Macq. *Hist. Nat. Dipt.* i. 175, 2. *Eupeitenus ater*, Serville, *Macq. Dipt. Exot.* i. 1, 85, 1.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.  
b. Nova Scotia. From Lieut. Redman's collection.

## PLECIA, Hoffmansegg.

PLECIA funebris, Wied. *Auss. Zweif.* i. 74, 4. *Macq. Dipt. Exot.* i. 1, 86, 5. *Hirtea funebris*, Fabr. *Syst. Antl.* 54, 14. *Penthetria funebris*, Wied. *Dipt. Exot.* i. 32, 4.

- a. South America.

PLECIA fulvicollis, Wied. *Auss. Zweif.* i. 73, 2. *Macq. Hist. Nat. Dipt.* i. 176, 1. *Blanch. Hist. Nat. An. Art.* iii. 576. *Hirtea flavicollis*, Fabr. *Syst. Antl.* 53, 10. *Penthetria fulvicollis*, Wied. *Dipt. Exot.* i. 31, 2.

- a. North Bengal. From Miss Campbell's collection.

PLECIA ruficollis, Wied. *Auss. Zweif.* i. 72, 1. *Macq. Hist. Nat. Dipt.* pl. 4, f. 17. *Tipula ruficollis*, Fabr. *Sp. Ins.* ii. 410, 53. *Ent. Syst.* iv. 249, 76. *Hirtea ruficollis*, Fabr. *Ent. Syst. Suppl.* 552, 6. *Syst. Antl.* 53, 9. *Penthetria ruficollis*, Wied. *Dipt. Exot.* i. 31, 1.

- a. South America.

- PLECIA collaris*, Wied. *Auss. Zweif.* i. 74, 3. *Hirtea collaris*, Fabr. *Syst. Antl.* 54, 12. *Laphria thoracica*, Fabr. *Syst. Antl.* 163, 32. *Penthetria collaris*, Wied. *Dipt. Exot.* i. 32, 3.  
*a.* Rio Janeiro. Presented by the Entomological Club.

*PLECIA ignicollis*, n. s., mas. et fem. *Atra, thoracis disco coccineo, antennis pedibusque nigris, alis fuscis.*

Body deep black, velvet-like: feelers black: disk of chest brilliant orange: legs black; tips of hind thighs and base of hind feet somewhat dilated: wings dark rich brown, especially at the base and along the fore border; veins and poisers piceous. Length of the body 3—4 lines; of the wings 8 lines.

- a.* Canton. Presented by E. Doubleday, Esq.  
*b.* Nepaul. From the Hardwicke bequest.

*PLECIA fulvimacula*, n. s. *Nigra, thoracis lateribus fulvo maculatis, metathorace rufo-fusco, abdomine piceo, antennis nigris, femoribus basi piceis, alis nigro-fuscis.*

Body black, shining: feelers black: chest with a large tawny spot on each side above the base of the wing: hind chest reddish brown: abdomen dull piceous: legs black, shining; thighs piceous towards the base: wings dark brown, especially towards the fore border, where there is a small narrow black band; veins and poisers piceous. Length of the body 4 lines; of the wings 8 lines.

- a.* Venezuela. From Mr. Dyson's collection.

*PLECIA rufithorax*, n. s., fem. *Nigra, thorace rufo, alis nigris.*

Body black: feelers also black: chest and breast bright red: legs black, clothed with very short tawny hairs: wings black; veins of the same colour; poisers dark piceous. Length of the body 2½ lines; of the wings 6 lines.

- a.* Jamaica. From Mr. Gosse's collection.

### *DILOPHUS, Meigen.*

*DILOPHUS febrilis.* *Tipula febrilis*, Linn. *Syst. Nat.* ii. 976, 44. *Faun. Suec.* 1768. *Gmel. Ed. Syst. Nat.* v. 2824, 44. *Fabr. Sp. Ins.* ii. 410, 55. *Mant. Ins.* ii. 327, 60. *Ent. Syst.* iv. 250, 79. *Berk. Syn. Nat. Hist.* i. 162. *Stew. El. Nat. Hist.* ii. 253. *Turt.* iii. 594. *Latr. Gen. Crust.* iv. 267. *Cons. Gén.* 442. *T. forcipata*, Schrank. *Faun. Boic.* iii. 2339. *T. Marci*, Schrank. *Ins. Austr.* 877. *Hirtea febrilis*, Fabr. *Ent. Syst.*

*Suppl.* 553, 9. *Syst. Antl.* 54, 13. *Pullata parvus*, Harris, *Ex.* 77, *pl.* 22, *f.* 7, 8. *Dilophus vulgaris*, Meig. *Dipt.* i. 306, 1, *pl.* 11, *f.* 1, 8. *Macq. Hist. Nat. Dipt.* i. 176, 1, *pl.* 4, *f.* 18. *Blanch. Hist. Nat. An. Art.* iii. 576. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 73, 1. *Bouché, Nat. Ins.* 207, 2.

a. England.

b. France.

*DILOPHUS marginatus*, Meig. *Dipt.* i. 307, 3.

a. England.

b. France.

*DILOPHUS femoratus*, Meig. *Dipt.* i. 307, 2, vi. 315. *Macq. Hist. Nat. Dipt.* i. 177, 2. *Zett. Ins. Lapp.* 800, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 74, 2.

a. England. From Mr. Walker's collection.

*DILOPHUS albipennis*, Meig. *Dipt.* vi. 315, 6. *Macq. Hist. Nat. Dipt.* i. 177, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 74, 4.

a. England. From Mr. Walker's collection.

*DILOPHUS serraticollis*, Barnston's MSS., mas. et fem. *Niger, thoracis dorso serrato, fem. coxis femoribusque fulvis, alis albis.*

*Male*.—Body black, shining, clothed with short black hairs: feelers black: eyes dark red: a toothed ridge along the chest: legs black, slender: wings white; fore border veins and brands tawny; the other veins white and indistinct. *Fem*.—Hips and thighs bright tawny; tips of hind thighs black: fore border veins and brands of the wings brown. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*DILOPHUS fulvicoxa*, n. s., fem. *Niger, thoracis dorso serrato, coxis anticis fulvis, alis limpidis, fusco unimaculatis.*

Body black, shining: eyes red: feelers black: a toothed ridge along the chest: abdomen dull black: legs black; fore hips tawny: wings colourless; a large, irregular, light brown spot under the brand, which is dark brown; fore border veins piceous; the other veins tawny; poisers piceous. Length of the body 2 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.



**DILOPHUS tridentatus**, n. s., fem. *Niger, abdomine nigro-piceo, tarsis et pedibus anticis piceis, tibiis anticis tridentatis, alis limpidis.*

Body black, shining: eyes and feelers also black: abdomen dark piceous: legs black; feet and fore legs piceous; each fore shank armed with three double teeth: wings colourless; a pale brown line along the fore border from the base of the wing to the brand, which is somewhat darker; fore border veins tawny; the other veins yellow. Length of the body 2 lines; of the wings 4 lines.

a. Tripoli.

**DILOPHUS thoracicus**, *Guer. Icon. Regn. Anim. Ins. pl. 92, f. 7.*

a. Monte Video. Presented by C. Darwin, Esq.

### BIBIO, Geoffroy.

**BIBIO hortulanus**, *Geoff. Ins. ii. 571, 3. Latr. Hist. Nat. Cr. xiv. 294. Gen. Crust. iv. 266. Cons. Gén. 442. Meig. Dipt. i. 310, 1. Macq. Hist. Nat. Dipt. i. 178, 1. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 75, 1. Blanch. Hist. Nat. An. Art. iii. 576, pl. 1, f. 6, 7. Bouché, Nat. Ins. 42, 24. Tipula hortulana, Linn. Syst. Nat. ii. 977, 46. Faun. Suec. 1770. Gmel. Ed. Syst. Nat. v. 2825, 46. Fabr. Sp. Ins. ii. 409, 50. Mant. Ins. ii. 327, 62. Ent. Syst. iv. 248, 72. Berk. Syn. Nat. Hist. i. 162. Stew. El. Nat. Hist. ii. 353. Turt. iii. 593. Hirtea hortulana, Fabr. Ent. Syst. Suppl. 551, 2. Syst. Antl. 52, 4. Meig. Klass. Zweif. i. 108, 1. Schæff. Icon. t. 104, f. 8—11. Schell. Gen. Mouch. t. 39, f. 1, 2. Schrank. Faun. Boic. iii. 2334. Ins. Austr. 876. Pullata citrius, Harris, Ex. 77, pl. 22, f. 5, 6.*

a. England.

b. France.

**BIBIO Marci**, *Latr. Gen. Crust. iv. 266. Meig. Dipt. i. 311, 2. Macq. Hist. Nat. Dipt. i. 178, 4, pl. 4, f. 19. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 75, 2. Tipula Marci, Linn. Syst. Nat. ii. 976, 38. Faun. Suec. 1765. Gmel. Ed. Syst. Nat. v. 2822, 38. Deg. Ins. vi. 160, 33. Stew. El. Nat. Hist. ii. 252. Turt. iii. 593. Réaumn. Ins. v. pl. 7. Geoff. Ins. ii. 570, 2. Schæff. Icon. t. 15, f. 1, 2. Panz. Faup. Germ. xcv. 20. Schrank. Faun. Boic. iii. 2335. Tipula febrilis, Schrank. Ins. Austr. i. 108, 2. Pullata funerosus, Harris, Ex. 76, pl. 22, f. 1, 2. Tipula brevicornis, Linn.*

*Faun. Suec.* 1766. *Gmel. Ed. Syst. Nat.* v. 2823, 42. *Hirtea Marci*, *Fabr. Syst. Antl.* 52, 5. *Meig. Klass. Zweif.* i. 108, 2. *Hirtea brevicornis*, *Fabr. Syst. Antl.* 50, 1.

a. England.

b. France.

**BIBIO Pomonæ**, *Latr. Gen. Crust.* iv. 266. *Meig. Dipt.* i. 312, 3. *Macq. Hist. Nat. Dipt.* i. 179, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 76, 3. *Tipula Pomonæ*, *Fabr. Sp. Ins.* ii. 410, 52. *Mant. Ins.* ii. 329, 64. *Ent. Syst.* iv. 249, 74. *Gmel. Syst. Nat.* v. 2823, 101. *Herbst, Gen. Nat.* viii. t. 338 (*Ins.* lxx.), f. 5. *Don. Nat. Hist. Brit. Ins.* ix. 27, pl. 300. *Stew. El. Nat. Hist.* ii. 252. *Turt.* iii. 594. *Hirtea Pomonæ*, *Fabr. Ent. Syst. Suppl.* 552, 4. *Syst. Antl.* 53, 7. *Meig. Klass. Zweif.* i. 109, 3. *Zett. Ins. Lapp.* 798, 1. *Tipula &c.*, *Deg. Ins.* vi. 160, 34. *Pullata funestus*, *Harris, Ex.* 77, pl. 22, f. 3, 4.

a. England.

b. France From Mr. Walker's collection.

c. France.

**BIBIO leucopterus**, *Meig. Klass. Zweif.* i. 110, 5. *Dipt.* i. 313, 4. *Haliday, Ent. Mag.* i. 157.

a. England. Presented by J. C. Dale, Esq.

b. England.

**BIBIO Johannis**, *Meig. Dipt.* i. 314, 7. *Macq. Hist. Nat. Dipt.* i. 179, 8. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1846, xix. 2, 76, 4. *Tipula Johannis*, *Linn. Syst. Nat. Ed.* xii. 2, 976, 41. *Deg. Ins.* vi. 159, 32, t. 27, f. 12—20. *Tipula Pyri*, *Fabr. Ent. Syst.* iv. 249, 75. *Hirtea Pyri*, *Fabr. Ent. Syst. Suppl.* 552, 5. *Syst. Antl.* 53, 8. *Hirtea præcox*, *Fabr. Syst. Antl.* 51, 3. *Meig. Klass. Zweif.* i. 111, 8. *H. hyalina*, *Meig. Klass. Zweif.* i. 110, 6. *Geoff. Ins.* ii. 570, 1. *Latr. Gen. Crust.* iv. 266. *Tipula Pomonæ*, *Schränk. Faun. Boic.* iii. 2337. *T. Marci*? *Schränk. Ins. Austr.* 877.

a. England.

b. France.

**BIBIO lanigerus**, *Hoffmansegg, Meig. Dipt.* i. 317, 14. *Macq. Hist. Nat. Dipt.* i. 179, 9. *Haliday, Ent. Mag.* i. 179. *B. vernalis*, *Meig. Dipt.* i. 315, 8. *Pullata miniusculus*, *Harris, Ex.* 77, pl. 22, f. 10?

a. England.

b. France.

**BIBIO nigripes**, *Meig. Dipt. i. 315, 9. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 77, 5. Pullata minimus, Harris, Ex. 77, pl. 22, f. 9?*

a. England. From Mr. Walker's collection.

**BIBIO venosus**, *Meig. Dipt. i. 315, 10. Curt. Brit. Ent. 138. Macq. Hist. Nat. Dipt. i. 179, 5. Guer. Icon. Regn. Anim. Ins. pl. 93, f. 8. Hirtca nervosa, Meig. Klass. Zweif. i. 110, 4.*

a. England.

**BIBIO ferruginatus**, *Meig. Dipt. i. 316, 11, vi. 316. Macq. Hist. Nat. Dipt. i. 178, 3. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 78, 7. Hirtca ferruginata, Fabr. Syst. Antl. 51, 2.*  
 • *Tipula ferruginata, Linn. Syst. Nat. ii. 976. Gmel. Syst. Nat. v. 2823, 40. T. flavicaudis, Deg. Ins. vi. 160, 35.*

a. England.

**BIBIO fulviventris**, *Megerle, Meig. Dipt. i. 316, 12. Macq. Hist. Nat. Dipt. i. 178, 2.*

a. England. From Mr. Walker's collection.

**BIBIO clavipes**, *Meig. Dipt. i. 317, 13. Macq. Hist. Nat. Dipt. i. 180, 10. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 77, 6. Zeller, Isis, 1842, 811, 4. B. dorsalis, Megerle, Meig. Dipt. i. 318, vi. 316. B. flavicollis, Megerle, Meig. Dipt. i. 318, 16. B. fulvicollis? Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 79, 10. Tipula Johannis, Linn. Syst. Nat. ii. 976, 41. Fabr. Sp. Ins. ii. 409, 51. Ent. Syst. iv. 249, 73. Gmel. Ed. Syst. Nat. v. 2823, 41. Hirtea Johannis, Fabr. Ent. Syst. Suppl. 552, 3. Syst. Antl. 52, 6. Meig. Klass. Zweif. i. 111, 7. H. ephippium, Zett. Ins. Lapp. 799. Schrank. Faun. Boic. iii. 2336.*

a. England. From Mr. Walker's collection.

b. France.

**BIBIO dorsalis**, *Megerle, Meig. Dipt. i. 318, 15, vi. 316. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 78, 9.*

a. England. From Mr. Walker's collection.

**BIBIO nigriventris**, *Huliday, Ent. Mag. i. 157.*

a. England. From Mr. Walker's collection.

**BIBIO brunnipes**, *Wied. Auss. Zweif. i. 81, 10. Tipula rufipes, Fabr. Mant. Ins. ii. 327, 69. Tipula brunnipes, Fabr. Ent. Syst. iv. 250, 80. Hirtea brunnipes, Fabr. Syst. Antl. 54, 15.*

a. Mexico. Presented by E. P. Coffin, Esq.

**BIBIO alhipennis**, *Wied. Auss. Zweif.* i. 80, 7. *Macq. Dipt. Exot.* i. 1, 88, 5.

a. New York. Presented by the Entomological Club.

b. New York. Presented by E. Doubleday, Esq.

**BIBIO xanthopus**, *Wied. Auss. Zweif.* i. 80, 5. *Macq. Dipt. Exot.* i. 1, 88, 4.

a. Nova Scotia. From Lieut. Redman's collection.

**BIBIO melanogaster**, *Wied. Dipt. Exot.* i. 35, 1. *Auss. Zweif.* i. 79, 3.

a. South Africa. Presented by Dr. Smith.

**BIBIO bicolor**, n. s. fem. *Nigra, thorace fulvo, antennis pedibusque nigris, alis fuscis.*

Body black: chest and breast orange: feelers and legs black: wings brown, darker brown along the fore border, which has a piceous band near its tip; veins brown; poisers piceous. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. East Indies. From Archdeacon Clerk's collection.

**BIBIO substituta**, n. s., fem. *Lutea, capite piceo, antennis pedibusque nigris, coxis luteis, alis nigro-fuscis.*

Body orange: head piceous: feelers and eyes black: legs black; hips orange: wings dark brown; brands indistinct; fore border veins brown, the other veins tawny; poisers orange. Length of the body 3 lines; of the wings 7 lines.

a. New Holland. Presented by the Earl of Derby.

**BIBIO nigrostigma**, n. s., mas. et fem. *Nigra, fem. thorace rufo nigro binnaculato, antennis pedibusque nigris, fem. coxis femoribusque rufis, alis fuscis.*

*Male*.—Body black, shining, thinly clothed with black hairs: feelers black: eyes dark red: legs black: wings clear brown; brands, fore borders and adjoining veins black; the other veins tawny; poisers dull tawny, with piceous knobs. *Fem*.—Chest red, with a black lobe on each side in front: hips and thighs red. Length of the body 3— $3\frac{1}{2}$  lines; of the wings 7—8 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

**BIBIO humeralis**, n. s. *Niger, lateribus fulvescentibus, pedibus rufis, femorum tibiaram tarsorumque apicibus nigris, alis subfuscis.*

Body black, shining, clothed with short tawny hairs: feelers black: sides of the chest tawny in front: sides of the abdominal

segments with a slight tawny tinge: legs red; thighs, shanks and feet with black tips: wings very slightly tinged with brown, and each having a brown stripe along the fore border from the base of the wing to the brand, which is dark brown; veins brown; poisers piceous. Length of the body  $2\frac{1}{2}$  lines; of the wings 7 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*BIBIO scita*, n. s., fem. *Nigra, pedibus rufis, femoribus apice nigris, alis fuscis.*

The colour of the legs of this species distinguishes it from *B. fuscipennis*, Macq. Body black, shining, clothed with short tawny hairs: feelers black: legs red; knees and tips of the thighs black; tips of the feet brown: wings brown; veins and brands piceous; poisers tawny, with black knobs. Length of the body 3 lines; of the wings 8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*BIBIO vestita*, n. s. *Nigra, tarsis et tibiis posticis rufo-fuscis apice nigris, alis albidis.*

Body black, and clothed with black hairs: feelers and legs black: feet and hind shanks reddish brown, with black tips: wings whitish; fore border veins brown, tawny towards the base of the wing; the other veins very pale and indistinct; poisers piceous. Length of the body 3 lines; of the wings 6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*BIBIO sumipennis*, Barnston's MSS., mas. *Niger, pedibus fulvis, genibus tarsisque apice fuscis, alis fuscis.*

Body black, shining, clothed with tawny hairs: eyes dark red: feelers black: legs bright tawny; knees and tips of feet brown: wings brown; fore border veins and brands darker; the other veins and the poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*BIBIO striatipes*, Barnston's MSS., mas. *Niger, pedibus fulvis, femorum tibiurum et tarsorum apicibus piceis, tibiis piceo vittatis, alis limpidis.*

Body black, shining, clothed with tawny hairs: eyes red: feelers black: legs tawny; tips of thighs, of shanks and of feet piceous; a piceous stripe along each shank, which, like the base of each foot, is dilated: wings colourless; fore border veins tawny;

the other veins white and hardly visible; brands and poisers tawny, the latter with brown knobs. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*BIBIO gracilis*, n. s., mas. *Niger, pedibus piceis, femoribus anticis nigris, alis subfuscis.*

Body black, and clothed with rather long black hairs: eyes dark red: feelers black: legs piceous, somewhat hairy, long and slender; thighs darker than the shanks; fore thighs black; tips of the shanks and base of the feet of the hind legs dilated: wings slightly tinged with brown; veins and brands brown; poisers piceous, rather long. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

### *RHYPHUS, Latreille.*

*RHYPHUS fuscatus*, *Meig. Dipt. i. 321, 1, pl. 11, f. 18. Macq. Hist. Nat. Dipt. i. 171, 1, pl. 4, f. 14. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 81, 1. Musca nigricans, Linn. Faun. Suec. 553, 2310. Tipula fuscata, Fabr. Sp. Ins. ii. 410, 57. Rhagio fuscatus, Fabr. Mant. Ins. ii. 332, 5. Ent. Syst. iv. 273, 7. Sciara fuscata, Fabr. Syst. Antl. 58, 7. Musca fuscata, Gmel. Ed. Syst. Nat. v. 2865, 315. Anisopus fuscus, Meig. Klass. Zweif. i. 103, 1. Rhagio fuscatus, Meig. Klass. Zweif. i. 304, d. Rhyphus nigricans, Blanch. Hist. Nat. An. Art. iii. 575.*

a. England.

*RHYPHUS punctatus*, *Meig. Dipt. i. 322, 2. Macq. Hist. Nat. Dipt. i. 172, 2. Zett. Ins. Lapp. 805, 1. Rhagio punctatus, Fabr. Ent. Syst. iv. 274, 13. Meig. Klass. Zweif. i. 103, 2. Sciara punctata, Fabr. Syst. Antl. 59, 13. Musca bilineata, Gmel. Syst. Nat. v. 2866, 320. Anisopus nebulosus, Meig. Klass. Zweif. i. 103, 2. Sylvicola cœlebs, Harris, Ex. 102, pl. 31, f. 8?*

a. England.

*RHYPHUS fenestralis*, *Latr. Hist. Nat. Cr. et Ins. xiv. 291. Gen. Crust. iv. 262. Cons. Gén. 442. Meig. Dipt. i. 323, 3. Lam. Anim. sans Vertéb. iii. 436, 1. Guer. Icon. Regn. Anim. Ins. pl. 93, f. 3. Curt. Brit. Ent. 102. Macq. Hist. Nat. Dipt. i. 172, 3. Gim. Bull. Soc. Imp. Nat. Mosc. 1846, xix. 2, 82, 3.*

*Rhagio cinctus*, *Fabr. Ent. Syst.* iv. 275, 15. *Sciara cincta*, *Fabr. Syst. Antl.* 60, 15. *Musca succincta*, *Gmel. Ed. Syst. Nat.* v. 2866, 322. *Réaumur. Ins.* v. t. 4, f. 3—10. *Sylvicola brevis*, *Harris, Ex.* 104, pl. 31, f. 3. *Tipula fenestralis*, *Scopoli, Ent. Carn.* 322, 858. *Anisopus nebulosus*, *Meig. Klass. Zweif.* i. 103, 2, 308.

a. England.

*RHYPHUS phaleratus*, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

b. New Zealand. From Mr. Earl's collection.

### *RACHICERUS*, *Haliday.*

*RACHICERUS fulvicollis*, *Haliday.*

a. Georgia. From Mr. Abbot's collection.

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## Fam. II. XYLOPHAGI.

### *BERIS*, *Latreille.*

Group I. *Loew, Ent. Zeit. Stett.* vi. 222.

*BERIS vallata*, *Meig. Dipt.* ii. 5, 6. *Macq. Dipt. Nord.* 138, 5. *Hist. Nat. Dipt.* i. 233, 7. *Zett. Dipt. Succ.* i. 133, 4. *Loew, Ent. Zeit. Stett.* vi. 222, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 175, 1. *Blanch. Hist. Nat. Ins.* iii. 592. *Stratiomys clavipes*, *Fabr. Sp. Ins.* ii. 418, 11. *Ent. Syst.* iv. 268, 24. *Syst. Antl.* 86, 35. *Musca clavipes*, *Gmel. Ed. Syst. Nat.* v. 2836, 12. *Musca vallata*, *Forster, Nov. Ins. Sp.* i. 96. *Stew. El. Nat. Hist.* ii. 257. *Turt.* iii. 632. *Stratiomys vallata*, *Gmel. Ed. Syst. Nat.* v. 2837, 166. *Beris nigratarsis*, *Latr. Gen. Crust.* iv. 273. *Beris clavipes*, *Latr. Cons. Gén.* 442. *Actina clavipes*, *Meig. Klass. Zweif.* i. 117, 2. *Actina vallata*, *Meig. Klass. Zweif.* i. 119, 2. *Musca &c.*, *Geoff. Ins.* ii. 483, 8. *Xylophagus nigratarsis*, *Lam. Anim. sans Verteb.* iii. 385, 3.

a. England:

b. France.

*BERIS clavipes*, *Latr. Cons. Gén.* 442. *Meig. Dipt.* ii. 5, 5. *Macq. Dipt. Nord.* 137, 4. *Hist. Nat. Dipt.* i. 233, 6. *Zett. Dipt. Succ.* i. 132, 3. *Loew, Ent. Zeit. Stett.* vi. 259, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 176, 2. *Musca clavipes*, *Linn. Syst. Nat.* xii. 2, 981, 12. *Fabr. Mant. Ins.* ii. 332, 17. *Syst. Ent.* 761, 9. *Schrank. Ins. Austr.* 894. *Stratiomys clavipes*, *Fabr. Sp. Ins.* ii. 418, 11. *Ent. Syst.* iv. 268,

24. *Gmel. Ed. Syst. Nat.* v. 268, 24. *Panz. Faun. Germ.* ix.

19. *Fall. Dipt. Suec. Stratiom.* 12, 10. *S. nigra, Geoff. Ins.*  
ii. 403, 8.

a. England.

b. France.

*BERIS sexdentata, Loew, Ent. Zeit. Stett.* vi. 261, 3.

♂ ♀. 1. Scutelli radiis 6.

*Beris sexdentata, Zett. Ins. Lapp.* 512, 2. *Dipt. Suec.* i. 132, 2.

2. Scutelli radiis 8.

*Beris flavipes, Macq. Dipt. Nord.* 139, 8. *Hist. Nat. Dipt.* i.  
233, 9. *Meig. Dipt.* vii. 56, 14.

♂. 1. Scutelli radiis 4.

*Beris obscura, Zett. Dipt. Suec.* i. 133, 5.

2. Scutelli radiis 6.

*Stratiomys chalybeata, Forst. Nov. Ins. Sp.* i. 95. *Gmel. Ed. Syst. Nat.* v. 2837, 165. *Actina atra, Meig. Klass. Zweif.* i. 118, 2. *Beris chalybeata, Meig. Dipt.* ii. 4, 4. *Macq. Dipt. Nord.* 137, 3. *Musca chalybeata, Stew. El. Nat. Hist.* ii. 257. *Turt.* iii. 632.

3. Scutelli radiis 8.

♀ 1. Scutelli radiis 4.

2. Scutelli radiis 6.

*Stratiomys sexdentata, Fabr. Sp. Ins.* ii. 418, 12. *Ent. Syst.* iv. 269, 25. *Syst. Antl.* 87, 36. *Gmel. Ed. Syst. Nat.* v. 2536, 162. *Actina sexdentata, Meig. Klass. Zweif.* i. 118, a. *Beris sexdentata, Latr. Dict. Hist. Nat.* xxiv. 192, 552. *Meig. Dipt.* vi. 315, 12. *B. chalybeata, Macq. Hist. Nat. Dipt.* i. 232, 5.

3. Scutelli radiis 8.

Var. ♀, thorace obscure viridi.

? *Beris obscura, Meig. Dipt.* ii. 4, 3. *Macq. Hist. Nat. Dipt.* i. 232, 4.

a. England.

b. France.

*BERIS fuscipes, Loew, Ent. Zeit. Stett.* vi. 282, 4.

♂. Scutelli radiis 8.

*B. fuscipes, Meig. Dipt.* ii. 8, 11. *Macq. Dipt. Nord.* 137, 7. *Hist. Nat. Dipt.* i. 137, 7



♀. Scutelli radiis 6.

*B. nigra*, *Meig. Dipt. ii. 7. Macq. Dipt. Nord. 138, 6.*  
a. England.

Group II. *Loew, Ent. Zeit. Stett. vi. 287.*

1. *With black rays on the scutellum.*

*BERIS nitens*, *Loew, Ent. Zeit. Stett. vi. 287, 7.*

♂. 1. Scutelli radiis 4.

*B. hirsuta*, *Macq. Hist. Nat. Dipt. i. 232, 3.*

2. Scutelli radiis 6.

" *Stratiomys similis*, *Forst. Nov. Ins. Sp. i. 97. Gmel. Ed. Syst. Nat. v. 2837, 167. Beris nigripes*, *Meig. Dipt. ii. 7, 9.*

♀. 1. Scutelli radiis 4.

*Xylophagus nitens*, *Latr. Gen. Crust. iv. 273. Actina chalybea*, *Meig. Klass. Zweif. i. 117, 1. Beris nitens*, *Meig. Dipt. ii. 2, 1. Macq. Dipt. Nord. 136, 1. Hist. Nat. Dipt. i. 231, 1.*

2. Scutelli radiis 6.

*B. femoralis*, *Meig. Dipt. ii. 6, 7.*

3. Scutelli radiis 8.

*B. flavifemorata*, *Meig. Dipt. ii. 8, 10.*

a. England.

b. France.

2. *With yellow rays on the scutellum.*

*BERIS tibialis*, *Meig. Dipt. ii. 3, 2. Macq. Dipt. Nord. 136, 2. Hist. Nat. Dipt. i. 232, 2, pl. 5, f. 15. Loew, Ent. Zeit. Stett. vi. 304, 8.*

a. England.

*BERIS apicalis*, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

*BERIS albimacula*, n. s., mas. *Purpureo-niger, thorace cinereo trivittato, scutello dentibus 4 fulvis, pedibus fulvis, femoribus fuscis, pedibus posticis piceis albo-cinctis, alis limpidis, apice fuscis.*

Body black, with a very slight purple tint: feelers tawny, their tips black: eyes piceous: three gray stripes on the chest: scutcheon

armed with four long tawny teeth: fore and middle legs pale tawny, tips of their feet brown, their thighs brown, excepting the base; hind legs piceous, their feet brown, excepting the first joint, which, like the thighs at the base and the knees, is white: wings colourless from the base to the middle, brown thence to the tips; brand dark brown, terminated by a colourless spot; veins brown: poisers pale tawny. Length of the body 6 lines; of the wings 10 lines.

a. New Holland. Presented by J. Hunter, Esq.

b. New South Wales. From Mr Wood's collection.

*BERIS quadridentata*, Barnston's MSS., mas. et fem. *Viridis, abdomine nigro-cupreo, antennis nigris, pedibus fulvis, tibiis posticis fuscis, tarsis posticis basi nigris, alis limpidis.*

Head and chest green, shining: eyes dark red: feelers black: abdomen dark bronze: scutcheon of the male with four, of the female with six teeth: legs tawny; hips, tips of feet and of hind thighs brown; hind shanks, excepting the base, also brown; first joint of hind feet white: wings colourless; veins tawny; brands brown; poisers pale yellow. Length of the body 2—2½ lines; of the wings 4½—5 lines.

Var. 1. Head and chest greenish blue.

Var. 2. Head and chest purplish blue.

Var. 3. Head bright purple.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*BERIS lata*, n. s., fem. *Scutello inermi, abdominis disco fulvo, antennis pedibusque fulvis, illis apice nigris, tarsis tibiisque anticis et tibiis posticis fuscis, alis limpidis.*

Body black, dimly shining: eyes dark piceous: feelers tawny, with black tips: scutcheon unarmed: disk of the abdomen dark tawny: legs tawny; fore feet and fore shanks, excepting the base of the latter, brown; hind shanks and tips of middle feet brown; hind feet pale tawny, with brown tips: wings colourless, pale tawny along the fore border; veins tawny; brands pale brown; poisers yellow, with a large piceous spot at the base of each knob. Length of the body 2½ lines; of the wings 4½ lines.

a. New York. Presented by the Entomological Club.

*BERIS brevis*, n. s., fem. *Nigra, abdomine livido, margine piceo, antennis fulvis apice fuscis, pedibus fulvis, tibiis posticis fuscis, alis limpidis.*

Body black, dimly shining: eyes dark piceous: feelers tawny, with black tips: abdomen livid; its border piceous: legs tawny;

hind shanks and tips of feet brown: wings colourless; veins pale brown; brands and poisers tawny. Length of the body 2—2½ lines; of the wings 4—4½ lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*XYLOPHAGUS, Meigen.*

*XYLOPHAGUS ater*, *Fabr. Syst. Antl.* 64, 1. *Latr. Gen. Crust.* iv. 272, pl. 16. f. 9, 10. *Fall. Dipt. Succ.* 13, 1. *Meig. Dipt.* ii. 11, 1. *Macq. Hist. Nat. Dipt.* i. 229, 1, pl. 5, f. 13. *Fall. Dipt. Succ. Xyl.* 13, 1. *Zett. Ins. Lapp.* i. 511, 1. *Ruthe. Isis.* 1831. *Loew, Zeit. Stett.* 1847. viii. 70, 9. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 176, 1. *Blanch. Hist. Nat. Ins.* iii. 592. *Empis subulata*, *Panz. Faun. Germ.* liv. 23.

a. England.

b. France.

*XYLOPHAGUS fasciatus*, *Barnston's MSS.*, fem. *Niger, thorace cinereo trivittato, abdomine ferrugineo, basi apice suturisque nigris, pedibus fulvis, alis subfuscis fuscoque vittatis.*

Body black, and clothed with short black hairs: head clothed above with gray down that has a tawny tinge, and adorned with a tuft of bright white hairs on each side at the base of the feelers: mouth pale yellow; palpi black: feelers black, pubescent, not longer than the head: chest with three gray stripes: abdomen ferruginous, tapering towards the tip, about thrice the length of the chest; the base, the tip, the sutures and the sides of the segments are black: legs tawny; thighs darker than the hips, but paler than the shanks, which, like the feet, are brownish tawny: wings slightly brown, each having an irregular brown band; some of the veins clouded with brown; wing-ribs tawny; veins piceous; poisers tawny, their knobs pale yellow. Length of the body 7 lines; of the wings 9 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*XYLOPHAGUS americanus?* *Wied. Dipt. Exot.* i. 51, 1. *Auss. Zweif.* i. 84, 1.

a. North America. Presented by the Entomological Club.

*Note.*—This insect does not quite agree with Wiedemann's description; and the same observation will apply to the following species.

*XYLOPHAGUS triangularis?* *Say, Journ. Acad. Phil.* iii. 1822, 30. *Wied. Auss. Zweif.* i. 85, 2.

a. Ohio. Presented by the Entomological Club.

**XYLOPHAGUS reflectens**, n. s., mas. et fem. • *Niger, thorace cinereo bivittato, antennis nigris, pedibus fulvis, alis subfuscis, fusco nebulosis.*

*Male*.—Body black, dull, clothed with short black hairs: eyes dark red: a yellow spot on each side at the base of the feelers, which are black, and not longer than the head: mouth yellow; palpi and eyes black: two dark gray stripes along the chest: abdomen shining: legs tawny; tips of feet brown: wings slightly brown, each with a broad irregular brown band; tips and cross-veins clouded with brown; brands brown; veins piceous; poisers tawny. *Fem*.—Abdomen lengthened at the tip, but much less so than that of *X. fasciatus*: wing-veins more clouded than those of the male. Length of the body 4—5 lines; of the wings 7—8 lines.

a. New York. Presented by E. Doubleday, Esq.

b. North America. From Mr. Children's collection.

**XYLOPHAGUS canescens**, n. s. *Rufo-piceus, cano pubescens, fronte abdominisque suturis argenteis, thorace cinereo bivittato, scutello ferrugineo, antennis nigris, pedibus fulvis, tarsis fuscis, alis limpidis apice fusco subnebulosis.*

Allied to *X. brunneus*, Wied. Body reddish piceous, clothed with hoary down: front of the head silvery: eyes dark red: feelers black: two hoary stripes side by side on the chest; scutcheon ferruginous: hind borders of abdominal segments silvery: legs tawny; feet brown: wings colourless, slightly clouded with pale brown at their tips; veins tawny; brands none; poisers pale tawny. Length of the body 3 lines; of the wings 5 lines.

a. North Bengal. From Miss Campbell's collection:

**XYLOPHAGUS terminalis**, n. s. *Cinereo-piceus, argenteo micans, ferrugineo varius, antennis fulvis, pedibus ferrugineis, tarsis fuscis, alis limpidis fusco bifasciatis.*

Body piceous, with a gray tinge, and slightly adorned with silvery reflections: eyes dark red: feelers tawny (?): a gray stripe on the chest; hind border of scutcheon and tip of abdomen ferruginous: fore part of the breast and under-side of the abdomen tawny: legs ferruginous, beset with silvery hairs; feet piceous, ferruginous at the base; first joint of fore feet yellow: wings colourless, traversed by two broad brown bands, the first irregular and interrupted, the second larger and entire; veins brown; poisers pale tawny, their clubs piceous towards the base. Length of the body 4 lines; of the wings 6 lines.

a. New Holland. From Mr. Lambert's collection.

**XYLOPHAGUS latistria**, n. s., mas. *Fuscus, capite aureo piloso, thorace aureo bivittato, scutello abdomineque ferrugineis, pedibus fulvis, femoribus ferrugineis, tarsis nigris basi flavis, alis medio apiceque fuscis.*

Head brownish tawny, silvery on each side by the eyes, clothed above with golden hairs, hoary and clothed with white hairs beneath; hind part yellow and beset with black bristles: eyes black: mouth tawny, brown towards the tip: feelers brown, not longer than the head; first joint tawny and armed with black bristles: chest brown, with two broad golden stripes, and adorned on each side with three broad oblique silvery stripes; sides and breast ferruginous, the latter with a hoary bloom and thinly clothed with white hairs: scutcheon and abdomen ferruginous, the latter with a black band near the base, hairy at the tip; hind border of the second segment white: hips dull tawny; thighs ferruginous; shanks pale tawny, clothed with yellow down, and armed with black bristles; feet black, yellow at the base: wings colourless, tawny at the base, and with a broad but short brown band in the middle; the whole of the tip is also brown: wing-ribs ferruginous; veins tawny, some of them clouded with brown; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. ——— ? From Mr. Argent's collection.

### CÆNOMYIA. Latreille.

**CÆNOMYIA ferruginea**, Meig. *Dipt.* ii. 18, 1. *Macq. Hist. Nat. Dipt.* i. 225, 1, pl. 5, f. 10. *Lam. Anim. sans Vertéb.* iii. 417, 1. *Blanch. Hist. Nat. Ins.* iii. 591, pl. 2, f. 5. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 178, 1. *Tabanus bidentatus*, Fabr. *Sp. Ins.* ii. 459, 25. *Ent. Syst.* iv. 372, 40. *Gmel. Ed. Syst. Nat.* v. 2885, 33. *Latr. Gen. Crust.* iv. 281. *Cons. Gén.* 442. *Schell. Gen. Mouch.* t. 26. *Schæf. Icon.* t. 110, f. 4, 5. *T. bispinosus*, Fabr. *Sp. Ins.* ii. 459, 26. *Ent. Syst.* iv. 372, 41. *Gmel. Ed. Syst. Nat.* v. 2885, 34. *Stratiomys errans*, Fabr. *Ent. Syst.* iv. 263, 2. *Panz. Faun. Germ.* lviii. 17. *Sicus ferrugineus*, Fabr. *Ent. Syst. Suppl.* 555, 2. *Syst. Antl.* 75, 2. *Meig. Klass. Zweif.* i. 121, 1. *Fall. Dipt. Suec.* 12, 1. *S. bicolor*, Fabr. *Ent. Syst. Suppl.* 555, 3. *Syst. Antl.* 76, 3. *Meig. Klass. Zweif.* i. 122, a. *S. unicolor*, Meig. *Klass. Zweif.* i. 122, 2. *S. aureus*, Meig. *Klass. Zweif.* i. 122, b. *S. errans*, Fabr. *Ent. Syst. Suppl.* 555, 4. *Syst. Antl.* 75, 4. *Meig. Klass. Zweif.* i. 122, b. *Musca olens*, Herbst, *Gem. Naturg.* viii. 108, t. 340 (*Ins.* 66, B.), f. 6. *Stratiomys grandis*, Schrank. *Faun. Boic.* iii. 2373. *S. major*, Schrank. *Faun. Boic.* iii. 2374,

*S. palatina*, *Schränk. Faun. Boic.* iii. 2375. *S. macroleon*,  
*Panz. Faun. Germ.* ix. 20. *S. unguiculata*, *Panz. Faun.*  
*Germ.* xii. 22.

a. France?

b. France? From Mr. Children's collection.

c. South of France. Presented by F. Walker, Esq.

*CÆNOMYIA pallida*, *Say, Long's Exped. to St. Peter's River, App.*  
 369. *Amer. Ent.* ii. *Wied. Auss. Zweif.* i. 86, 1. *Gosse, Can.*  
*Nat.* 199. *Harr. Ins. New Engl.* 407.

a. New York. Presented by E. Doubleday, Esq.

b. New York. Presented by the Entomological Club.

### Fam. III. TABANII.

#### PANGONIA, Latreille.

*PANGONIA longirostris*, *Hardwicke, Trans. Linn. Soc.* xiv. 135, *pl.*  
 6, *f.* 5, 6. *Wied. Auss. Zweif.* ii. 621, 14. *Griff. Ed. Cuvier's*  
*Anim. Kingd.* xv. *pl.* 114, *f.* 3. *Macq. Ann. Soc. Ent. Fr.* vi.  
 429, *pl.* 15, *f.* 20, 23.

a. Nepaul. From the Hardwicke bequest.

b. East India. Presented by Lady Amherst.

c. North Bengal. From Miss Campbell's collection.

d. East India. From Mr. Children's collection.

*PANGONIA rostrata*, *Wied. Dipt. Exot.* i. 54, 6. *Auss. Zweif.* i. 96,  
 17. *Macq. Ann. Soc. Ent. Fr.* vi. 429, *pl.* 15, *f.* 11. *Tabanus*  
*rostratus*, *Lin. Mus. Lud. Ulr.* 421, 1. *Syst. Nat.* ii. 999, 1.  
*Fabr. Sp. Ins.* ii. 455, 1. *Ent. Syst.* iv. 362, 1. *Bombylius*  
*tabaniformis*, *Deg. Ins.* vi. *t.* xxx. *f.* 9. *Pangonia lineata*,  
*Fabr. Syst. Antl.* 89, 1. *Philochile rostrata*, *Hoffmānsegg.*

a. Cape.

*PANGONIA varicolor*, *M. B. Wied. Auss. Zweif.* i. 98, 21.

a. Cape of Good Hope.

*PANGONIA amboinensis*, *Fabr. Syst. Antl.* 91, 7. *Wied. Dipt. Exot.*  
 i. 53, 4. *Auss. Zweif.* i. 92, 10.

a. Nepaul. From the Hardwicke bequest.

*PANGONIA rufo-hirta*, n. s., fem. *Rufo-fusca, pedibus piceis, alis*  
*flavo-fuscis basi obscurioribus.*

Body reddish brown: head clothed beneath with bright ferru-  
 ginous hairs: eyes dark piceous: mouth piceous, much more than  
 half the length of the body; lancets yellow: feelers ferruginous:

chest dark reddish brown, clothed with bright ferruginous hairs, which are most thick on each side and in front of the breast: abdomen clothed on each side, and especially towards the tip, with golden tawny hairs: legs dark piceous: wings yellowish brown, darker towards the base; veins and poisers piceous. Length of the body 11 lines; of the wings 22 lines.

a. Brazil. From Mrs. Noel's collection.

PANGONIA piceo-hirta, n. s., mas. *Picea, piceoque hirta, abdomine apice aureo piloso, antennis piceis, pedibus nigris, alis fuscis.*

Body piceous, and clothed with piceous hairs: head dull tawny in front, the hind part yellow and clothed with yellow hairs: eyes and feelers piceous: mouth black, a little shorter than the body: abdomen clothed with golden hairs on each side towards the tip: legs black, and clothed with short black hairs: wings brown, dark tawny along the fore borders; wing-ribs and veins piceous, the latter ferruginous in the tawny part of the wings; poisers dark tawny, yellow towards the tips. Length of the body 10 lines; of the wings 20 lines.

a. Brazil. From Mr. Mornay's collection.

PANGONIA nigro-hirta, n. s., fem. *Rufo-fusca, pedibus nigris, alis fuscis, basi piceis.* *P. nigripennis?* *Guer. Icon. Regn. Anim. Ins. pl. 77, f. 2.*

Body dark reddish brown: head beneath, chest and thighs clothed with black hairs: eyes piceous, with a metallic tint: feelers and mouth black, the latter piceous towards the tip, less than half the length of the body: abdomen smooth, shining, clothed with golden yellow hairs on each side towards the tip: legs black: wings dark brown, piceous towards the base; veins dark piceous; poisers reddish brown. Length of the body 9—10 lines; of the wings 18—20 lines.

a. Brazil. From Mr. Mornay's collection.

PANGONIA fulvithorax, *Wied. Dipt. Exot. i. 52, 2. Auss. Zweif. i. 89, 4. Macq. Ann. Soc. Ent. Fr. vi. 429, pl. 15, f. 21.*

a. Brazil. From Mr. Mornay's collection.

b. Brazil. From Mrs. Noel's collection.

PANGONIA badia, n. s., mas. *Rufo-fusca, fuscoque hirta; abdomine apice aureo piloso, antennis ferrugineis basi fuscis, pedibus piceis, alis fuscis.*

Body reddish brown: head clothed beneath with pale brown hairs: eyes black: feelers ferruginous, brown, and clothed with

black hairs at the base: mouth very dark ferruginous, full half the length of the body: chest clothed with brown hairs: abdomen with some golden hairs on each side at the tip: legs piceous, thickly clothed with short black hairs: wings brown; wing-ribs and veins very dark ferruginous; poisers piceous. Length of the body 8 lines; of the wings 16 lines.

- a. Brazil. From Mr. Tucker's collection.
- b. Brazil. From Mrs. Noel's collection.
- c. Brazil. From Mr. Mornay's collection.

PANGONIA leucopogon, *Weid. Aust. Europ.* i. 92, 11. *Macq. Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 3, 10.

- a. Brazil. From Mr. Noel's collection.

PANGONIA basalis, n. s., fem. *Fusca capite subtus pectoreque fulvis, abdomine ferrugineo, antennis pedibusque fulvis, alis fuscis basi nigrofuscis.*

Head brown above, dark tawny beneath, where it is thickly clothed with white hairs: eyes brassy: feelers tawny with black tips: mouth black, and nearly as long as the body: chest brown, and thinly clothed with short black hairs: breast tawny, and thickly clothed with white hairs: abdomen ferruginous: legs tawny; wings brown, blackish brown towards the base; wing-ribs and veins piceous; poisers tawny. Length of the body 7 lines; of the wings 14 lines.

- a. Brazil. From Mr. Mornay's collection.

PANGONIA sorbens, *Wied. Auss. Zweif.* i. 93, 13.

- a. Brazil.

PANGONIA marginata, *Fabr. Syst. Anth.* 90, 2. *Latr. Gen. Crust.* iv. 282. *Meig. Dipt.* ii. 24, 4. *Macq. Hist. Nat. Dipt.* i. 192, 2. *Blanch. Hist. Nat. Ins.* iii. 589, 2. *Tabanus haustellatus, Fabr. Sp. Ins.* ii. 455, 2. *Ent. Syst.* iv. 362, 2. *Coq. Dec.* 3, 120, pl. 27, f. 4. *Tanyglossa haustellata, Meig. Klass. Zweif.* i. 175, a.

- a. Albania. Presented by W. W. Saunders, Esq.
- b. South of France?

PANGONIA micans, *Hoffmansegg, Meig. Dipt.* ii. 25. *P. tabaniformis, Latr. Hist. Cr.* xiv. 318. *Lam. Anim. sans Verteb.* iii. 419, 2. *Bombylius haustellatus, Oliv. Enc. Meth. Ins.* vii. *Macq. Hist. Nat. Dipt.* i. 192, 3.

- a. South of France. Presented by F. Walker, Esq.
- b. South of France?



PANGONIA maculata, *Fabr. Syst. Antl.* 90, 3. *Latr. Gen. Crust.* iv. 282. t. 15, f. 4. *Cons. Gén.* 443. *Lam. Anim. sans Verteb.* iii. 419, 1. *Blanch. Hist. Nat. Ins.* iii. 589, 1. *Meig. Dipt.* ii. 22, 2. *Macq. Hist. Nat. Dipt.* i. 192, 1, pl. 5, f. 1, 2. *Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 26. *P. variegata*, *Fab. r. Syst. Antl.* 92, 8. *Tabanus proboscideus*, *Fabr. Ent. Syst.* iv. 363, 3. *Tanyglossa proboscidea*, *Meig. Klass. Zweif.* i. 175, b.

a. Ukraine. Presented by Dr. Dowler.

b. France ?

PANGONIA varicolor, *M. B. Weid. Auss. Zweif.* i. 98, 21.

a. South Africa. Presented by Dr. A. Smith.

PANGONIA appendiculata, *Mac. Dipt. Exot.* i, 97, 1, pl. 13, f. 2.

a. South Africa. Presented by Dr. A. Smith.

PANGONIA angulata, *Fab. Syst. Antl.* 91, 5. *Weid. Dipt. Exot.* i. 557. *Auss. Zweif.* i. 97, 19. *Macq. Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 4. 24.

a. South Africa. Presented by Dr. A. Smith.

b. South Africa ?

PANGONIA lateralis, *Fabr. Syst. Antl.* 91, 4. *Weid. Dipt. Exot.* i. 56, 9. *Auss. Zweif.* i. 101, 25. *Bombylius tabaniformis*, *Deg. Ins.* iv. t. xxx. f. 11.

a. South Africa. Presented by Dr. A. Smith.

b. South Africa. From Mr. Children's collection.

PANGONIA multifaria, n. s., fem. *Fulvo-fusca, abdomine ferrugineo nigro fulvoque pilisque albis fasciato, antennis pedibusque fulvis, alis fulvo-cinereis.*

Head tawny with a hoary bloom, thickly clothed with white hairs beneath: feelers tawny: eyes and mouth black, the latter about two-thirds of the length of the body; lancets and palpi tawny: chest gray, clothed with tawny hairs, and having two hoary stripes; sides and breast more thickly clothed with white hairs: abdomen ferruginous; first segment of the back tawny; a large spot on the second segment, and the fore borders of all the following segments black; the black band on the third segment is almost interrupted on each side; the second and the fourth and the sides of the following segments are fringed with white hairs: legs tawny: wings slightly gray, yellowish brown at the base and on the fore borders, and this colour extends along the veins into the disks of the wings; wing-ribs dark ferruginous; veins piceous; poisers tawny. Length of the body  $7\frac{1}{2}$  lines; of the wings 14 lines.

a. Africa (Cape ?) From Mr. Children's collection.

*PANGONIA adjuncta*, n. s., fem. *Nigra, canescens, fulvo varia, abdomine fulvo albo fuscoque fasciato, pedibus nigris, alis fusco-cinereis.*

Head dull tawny above, pale yellow in front and beneath, where it is thickly clothed with hairs of the same colour: feelers, eyes, and mouth black, the latter hardly as long as the chest, chest black, covered with a hoary bloom, clothed with tawny hairs, and having five tawny stripes; sides and breast thickly clothed with yellowish white hairs: abdomen black; first and second segments tawny on each side and on the hind borders; third also tawny on the hind border; fourth white and clothed with white hairs; hind borders of the following segments very pale brown; borders of the underside more white: legs black: wings gray, brown at the base and on the fore borders and along the veins; wing-ribs and veins piceous; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. Africa (Cape?) From Mr. Children's collection.

*PANGONIA conjuncta*, n. s., mas. *Nigra, capite flavo subtus albo, thorace fulvo quinquevittato, abdomine ferrugineo albo fasciato, maculis apiceque nigris, antennis pedibusque nigris, alis fulvo-cinereis.*

Head yellow, white in front and beneath, where it is thickly clothed with white hairs: feelers, eyes, and mouth black; the latter a little shorter than the chest: chest black, clothed with tawny hairs, and having five indistinct tawny stripes; sides and breast thickly clothed with yellowish white hairs: abdomen dull ferruginous, black towards the tip, and having a large black spot on the back of each segment from the first to the third; on the hind border of the second segment there is a white band, whose fore border is undulating; the third and fourth segments have each a small semicircular white spot on their hind borders, and the fourth has also a short white band on each side: legs black: wings gray, yellowish brown at the base, and on the fore borders and along the borders of the veins; wing-ribs and veins piceous; poisers tawny. Length of the body  $7\frac{1}{2}$  lines; of the wings 15 lines.

a. South Africa. Presented by Dr. A. Smith.

*PANGONIA barbata*, Weid. Zool. Mag. iii. 7, 10. Auss. Zweif. i. 94. 14. Macq. Ann. Soc. Ent. Fr. vi. 429, pl. 15, f. 17. Tabanus barbatus, Linn. Mus. Lud. Ulr. 422, 2. Syst. Nat. i. 999, 2.

a. Cape of Good Hope. From Mr. Children's collection.

**PANGONIA inconspicua**, n. s., fem. *Fusca, capite pectoreque canis, abdomine piceo maculis nonnullis albis, lateribus suturisque ferrugineis, antennis nigris, pedibus cinereo-piceis, tibiis fulvis, alis subcinereis.*

Body brown: head with a hoary bloom, clothed beneath with white hairs: eyes bronze: feelers black: mouth tawny, with a black tip, longer than the head: chest with four hoary stripes, ferruginous on each side: breast hoary and clothed with white hairs: abdomen piceous, with a hoary bloom; hind borders and sides of the segments ferruginous; a small white, but sometimes obsolete triangular spot on the hind border of each segment: legs gray; shanks tawny; feet piceous: wings very slightly gray; wing-ribs and veins ferruginous; poisers tawny, with piceous knobs. Length of the body 6 lines; of the wings 12 lines.

a. ———? From Mr. Children's collection.

**PANGONIA spilopectera**, Weid. *Dipt. Exot.* i. 57, 10. *Auss. Zweif.* i. 102, 26.

a. Cape of Good Hope. From Mr. Children's collection.

**PANGONIA leucomelas**, M. B. Weid. *Auss. Zweif.* i. 90, 7.

a. South Africa. Presented by Dr. A. Smith.

**PANGONIA sexfasciata**, n. s., fem. *Nigra, thorace cinereo trivittato, abdomine albo sexfasciato, antennis pedibusque nigris, alis sublimpidis, venarum marginibus subfulvis.*

Body black: head reddish brown above, covered with gray bloom in front, clothed with yellowish white hairs beneath: feelers and mouth black; lancets ferruginous: chest thinly clothed with gray down, and having three very indistinct gray stripes; sides and breast clothed with tawny hairs: abdomen with six white bands on the hind borders of the segments; the first, second, fourth, and fifth entire; the third obsolete on each side; the sixth obsolete in the middle; the underside with two broader white bands: legs black: wings nearly colourless, brownish tawny at the base, and on the fore borders, and along the veins; wing-ribs and veins piceous, the latter ferruginous at the base; poisers piceous. Length of the body 8 lines; of the wings 17 lines.

a. Africa (Cape?) From Mr. Children's collection.

**PANGONIA melanopyga**, Weid. *Zool. Mag.* iii. 31, 46. *Dipt. Exot.* i. 56, 8. *Auss. Zweif.* i. 98, 20. *Macq. Dipt. Exot.* i. 1, 972. *Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 13.

a. South Africa. Presented by Dr. A. Smith.

b. ———?

PANGONIA bifasciata (var.? fem.), *Wied. Dipt. Exot.* i, 58, 12.  
*Auss. Zweif.* i. 102, 27.

a. Cape of Good Hope. From Mr. Children's collection.

PANGONIA crassipalpis, *Macq. Dipt. Exot.* i. 1, 98, 3, pl. 14, f. 1.  
*Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 12.

a. Cape of Good Hope. From Mr. Children's collection.

PANGONIA flavipes, *Macq. Dipt. Exot.* i. 1, 98, 4.

a. Cape of Good Hope. From Mr. Children's collection.

PANGONIA fulvifascia, n. s., fem. *Fusca, capite subtus pectoreque albis, thorace cano bivittato, abdomine piceo segmentorum marginibus ventrequae fulvis, antennis pedibusque fulvis, alis fusrocinereis.*

Head brown, hoary and thickly clothed with white hairs beneath: mouth black, much shorter than the chest; palpi and feelers tawny: chest brown, with three hoary stripes, tawny on each side: breast white, and thickly clothed with white hairs: abdomen piceous; hind borders of the segments tawny; underside paler tawny, and covered with a white bloom: legs tawny, clothed with white hairs; hips with a hoary bloom: wings gray, brown at the base and along the fore borders; wing-ribs and veins piceous; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. Africa (Cape?) From Mr. Children's collection.

PANGONIA hebes, n. s., fem. *Cinerea, capite abdomineque fulvis, pedibus ferrugineis, alis limpidis basi marginibusque anticis fulvis.*

Head tawny, thickly clothed beneath with yellow hairs: eyes dark piceous: mouth black, ferruginous at the base, less than half the length of the body: feelers tawny: chest gray; breast paler, thickly clothed, as are also the sides, with yellow hairs: abdomen tawny, paler beneath: legs ferruginous: wings colourless, tawny at the base and along the fore borders; veins piceous, some of them tawny, as are also the poisers. Length of the body 6—7 lines; of the wings 12—14 lines.

a. ———?

PANGONIA viridiventris, *Macq. Dipt. Exot.* i. 108, 23.

a. Venezuela. From Mr. Dyson's collection.

**PANGONIA gemina**, n. s. *Fusca, thorace albo bivittato, abdomine ferrugineo, vittâ fasciis apiceque nigris, pedibus piceis, alis cinereis.*

Head, chest, and breast dark brown : head clothed thickly beneath with white hairs : mouth black, about half the length of the body : feelers black : chest thinly clothed with white hairs, and having two white stripes which are remote from each other : breast thickly clothed with white hairs : abdomen ferruginous, clothed on each side with white hairs, and having on the back a broad black stripe from the base to the middle, beyond which the hind border of each segment and the whole of the tip of the abdomen are black : legs piceous : wings gray ; veins and poisers piceous. Length of the body 7 lines ; of the wings 14 lines.

a. Western Australia. From Mr. Clifton's collection.

**PANGONIA quadrimacula**, n. s. *Ferruginea, pedibus ferrugineis, metatibiis piceis, metatarsis nigris, alis fuscis maculis duabus nigro-fuscis, totidem apicibusque limpidis.*

Body ferruginous : head and sides of the breast thickly clothed with bright yellow hairs : eyes dark piceous : mouth tawny, about one-third of the length of the body : feelers ferruginous, darker towards the tips : sides of the abdomen clothed with white hairs, which are interrupted by a broad interval of black hairs : legs ferruginous ; hind shanks piceous ; hind feet black : wings brown, colourless at the tips ; each disk with four large nearly square spots, of which the first and the third are colourless, the second and the fourth are dark brown ; veins ferruginous at the base and along the fore borders, piceous towards the tips ; poisers ferruginous with yellow tips. Length of the body 8 lines ; of the wings 16 lines.

a. New Holland. From Mr. Lambert's collection.

**PANGONIA contigua**, n. s. *Cinerea, capite fulvo, abdomine subtus basique ferrugineo, segmentis 1<sup>o</sup> et 2<sup>o</sup> cinereo maculatis, pedibus ferrugineis, metapedibus fuscis, alis subfuscis, maculis duabus fuscis, unaque limpida, basi marginibusque anticis fulvis.*

Head dull pale tawny, thickly clothed beneath with bright yellow hairs : eyes dark piceous : sucker black, much less than half the length of the body ; the other parts of the mouth ferruginous : feelers bright ferruginous : chest and breast dark gray, the latter and the sides thickly clothed with bright yellow hairs : abdomen black, ferruginous beneath and at the base above ; a transverse gray spot on the back of the first segment, and another of an obconical shape on the second segment : legs pale ferruginous ; tips of feet and hind

legs brown; tips of hind thighs ferruginous: wings very slightly tinged with brown, tawny at the base and along the fore border; beneath the latter there are two large irregular brown spots, with a colourless spot between them; veins tawny; poisers pale yellow, their knobs nearly white. Length of the body 7 lines; of the wings 18 lines.

a. New Holland.

b. New Holland. From Mr. Children's collection.

*PANGONIA tricolor*, n. s. fem. *Fusca, capite albo, thoracis vittarum quinque externis fulvis, interioribus canis, medianque fusca, abdomine fasciis rittis basi ventrequé fulvis, pedibus ferrugineis, alis limpidis, basi marginibus anticis maculisque septem fuscis.*

Head white, thickly clothed beneath with white hairs: eyes dark piceous: mouth bright tawny: sucker black, hardly half the length of the chest: feelers ferruginous: chest and breast brown; the latter and the sides thickly clothed with white and tawny and a few black hairs; the chest has two tawny stripes, and between them are two hoary stripes enclosing a narrow pale brown stripe, and sending forth two oblique hoary bands to the sides of the chest: abdomen brown above, tawny beneath: its back is slightly clothed with tawny hairs, and the hind borders of its segments are tawny; there is also an oblique tawny stripe along each side of the first and second segments: legs ferruginous: wings colourless, brown at the base and along the fore border, and having seven brown spots on each disk; veins black; poisers tawny. Length of the body 5 lines; of the wings 10 lines.

a. Western Australia. From Mr. Clifton's collection.

*PANGONIA gemella*, n. s., fem. *Cinereo-picea, lateribus ventrequé ferrugineis, thorace cano quinque vittato, abdomine maculis albis trivittato, antennis pedibusque nigris, alis cinereis.*

Body grayish piceous, and clothed with short black hairs: eyes, feelers, and mouth black, the latter but little longer than the head: chest with five indistinct hoary stripes, dark ferruginous on each side: abdomen dark ferruginous on each side, and with three rows of nearly triangular white spots on the hind borders of the segments; underside dark ferruginous, black on the middle of the fore border of each segment: legs black: wings gray; cross-veins clouded with black; wing-ribs, veins, and poisers also black. Length of the body 5 lines; of the wings 11 lines.

a. Western Australia. From Mr. Clifton's collection.

**PANGONIA conjungens**, n. s., fem. *Fusca, thorace cano quadrivittato, abdomine fasciis pallidis dilatatis, pedibus nigris, tibiis ferrugineis, alis subcinereis fusco quadrimaculatis.*

Head and chest very dark brown, with a slight hoary bloom: eyes and feelers dark piceous: mouth ferruginous; sucker black, hardly longer than the head: chest clothed with brown hairs, and having four indistinct hoary stripes: breast clothed with tawny hairs: abdomen brown; hind borders of the segments tawny beneath, almost white above, where this pale colour is more or less interrupted; in the middle, however, it is widened, and forms nearly triangular spots on four of the segments: legs black; shanks dark ferruginous, with black tips: wings slightly gray, with brown bands, and each having also four small brown spots on the cross-veins; veins and poisers piceous. Length of the body 5 lines; of the wings 10 lines.

a. Western Australia. From Mr. Clifton's collection.

**PANGONIA gibbula**, n. s., mas. *Cinerea, thorace cano quinquévittato, abdomine fusco-cinereo, pedibus fulvis, alis subfuscis, basi marginibusque anticis subfulvis.*

Head thickly clothed in front and beneath with tawny hairs, and adorned with white about the feelers, which are dark ferruginous: eyes dark piceous: chest and breast gray, the former with five hoary stripes, the latter and the sides thickly clothed with golden yellow hairs, with which a few black hairs are mingled: abdomen brownish gray; hind borders and sides of the segments adorned with golden hairs: legs tawny; tips of feet brown: wings very slightly tinged with brown, somewhat tawny at the base and along the fore borders; veins piceous; poisers ferruginous. Length of the body 4 lines; of the wings 8 lines.

a. Western Australia. From Mr. Clifton's collection.

b. New Holland.

**PANGONIA Jacksonii**, Macq. *Dipt. Exot.* i. 102, 10.

a. New Holland.

b. New Holland. Presented by the Haslar Hospital.

c. Swan River. Presented by Dr. Richardson.

**PANGONIA lurida**, n. s., fem. *Ferruginea, capite cano, thorace nigro trivittato, abdominis segmentis fasciis pallidioribus, pedibus ferrugineis, tarsis piceis, alis limpidis.*

Head hoary, with a shining piceous spot between the eyes, clothed beneath with white hairs: eyes black: palpi pale yellow: sucker piceous: feelers ferruginous, pale yellow at the base: chest,

breast and abdomen ferruginous; chest and breast clothed with white down: chest with three black stripes, of which the middle one is broad, the other two are narrow: hind borders of the abdominal segments pale ferruginous: legs ferruginous; feet piceous: wings colourless; veins and poisers ferruginous, the former piceous towards their tips. Length of the body 5—6 lines; of the wings 10—12 lines.

- a. Port Stephen, New Holland. Presented by the Earl of Derby.
- b. Swan River. Presented by Dr. Richardson.
- c. New Holland. Presented by J. Hunter, Esq.

*PANGONIA aurata*, *Macq. Dipt. Exot.* i. 100, 6, t. 15, f. 1. *Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 7.

- a. Western Australia. From the Rev. J. Wenham's collection.

*PANGONIA solida*, n. s., fem. *Picea, capite subtus albo, thorace fulvo quinque vittato, pectore cano, abdomine cirris aureis ornato, subtus albo piloso, pedibus nigris, alis subcinereis.*

Nearly allied to *P. aurata*. Head piceous, pale tawny in front, white and clothed with white hairs beneath: eyes piceous: mouth not longer than the head; palpi piceous; sucker ferruginous: feelers black, third joint with no angle at the base: chest piceous, with five pale tawny stripes, thickly clothed along each side and behind with bright yellow hairs: breast hoary, clothed with pale yellow hairs: abdomen piceous, adorned with a tuft of golden hairs on the hind border of each segment; hind borders of last three segments deeply fringed with golden hairs; segments of the underside clothed, especially along their hind borders, with silky white hairs, excepting the three last segments which have golden hairs: legs black: wings slightly gray; veins black: poisers tawny; their knobs piceous, with pale yellow tips. Length of the body 6 lines; of the wings 12 lines.

- a. Port Stephen, New Holland. Presented by the Earl of Derby.

*PANGONIA Lerda*, *White, Zool. Voy. Erebus and Terror.*

- a. New Zealand. Presented by Dr. A. Sinclair.

*PANGONIA Adrel*, *White, Zool. Voy. Erebus and Terror.*

- a. New Zealand. Presented by Dr. A. Sinclair.

*PANGONIA guttata*. *P. margaritifera*, *M. B. Weid. Auss. Zweif.* i. 88, 3. *Macq. Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 8. *Tabanus guttatus*, *Donovan, Illust. Ent. i. t. Hym. et Dipt.*

- a. New Holland. From Mr. Walker's collection.
- b. New Holland.



- c. Sydney. Presented by Dr. Sinclair.
- d. New Holland. From the Hardwicke Bequest.
- e. New Holland. Presented by the Linnean Society.
- f. New Holland. From Mr. Children's collection.
- g. Nepaul. From the Hardwicke Bequest.

**PANGONIA submacula**, n. s., fem. *Fusca, capite subtus cano, abdomine nigro cirris albis vario, pedibus ferrugineis, tibiis tarsisque posticis piceis, alis subfulvis.*

Head brown, hoary behind and beneath, where it is clothed with pale tawny hairs: mouth and feelers ferruginous; sucker black: chest brown, clothed with short brown hairs; its sides and breast clothed with longer pale tawny hairs; abdomen black, with a few tufts of white hairs on each side along the hind borders of the segments; there are also tufts on the underside, and some of them are more in the disk: legs ferruginous; hind shanks and hind feet piceous: wings with a tawny tinge, especially at the base and along the fore borders; veins ferruginous, piceous towards the tips of the wings; poisers ferruginous, with pale tawny tips. Length of the body 8 lines; of the wings 18 lines.

- a. Swan River. From Mr. Dring's collection.
- b. New Holland. Presented by the Haslar Hospital.

**PANGONIA media**, n. s., fem. *Fusca thorace, cinereo trivittato, abdomine piceo fusciculis albis trivittato, pedibus ferrugineis, alis cinereis ferrugineo variis.*

Allied to *P. guttata*. Body brown: head covered with hoary down, and thickly clothed beneath with white hairs: eyes piceous: mouth black, not much longer than the head: palpi and feelers ferruginous: chest with three gray stripes, clothed with hoary hairs, and having a few black hairs on each side: breast hoary, and thickly clothed with white hairs; scutcheon hoary and adorned with silvery hairs: abdomen piceous, with three rows of tufts of white hairs above, and two of the same beneath; the side rows are irregular, and on the underside large and small tufts are alternate: legs ferruginous: wings gray; base and fore borders ferruginous, which colour also clouds the cross-veins; wing-ribs and veins ferruginous; poisers tawny, with pale yellow tips. Length of the body 8 lines; of the wings 18 lines.

- a. New Holland. From Mr. Children's collection.
- b. New Holland.

- PANGONIA depressa, *Macq. Dipt. Exot.* i. 107, 21. *Ann. Soc. Ent. Fr.* vi. 429, pl. 15, f. 22. *Tabanus latus*, *Guer. Icon. Regne. Anim. Ins.* pl. 77, f. 1. *Walker, Linn. Trans.* xvii. 336, 1.  
a. Chili? From Mr. Leadbeater's collection.

PANGONIA ocellus, n. s., fem. *Rufo-fusca, thorace ferrugineo quadri-vittato, scutello et pectore ferrugineis, abdomine piceo, pedibus ferrugineis, alis fuscis, maculis duabus limpidis totidemque cinereis, albo fasciatis, basi flavo-fuscis.*

Head and chest reddish brown: eyes dark piceous: feelers ferruginous; third joint armed with a long curved horn: mouth dark ferruginous, black towards the tip, about half the length of the body: chest with four ferruginous stripes; scutcheon and breast ferruginous: abdomen dark piceous: legs ferruginous; tips of the feet brown: wings dark brown, with a yellowish tinge from the base to near the middle, where there is an irregular and oblique white band; beyond this there are two oblong gray spots enclosed in brown borders, and having two little colourless spaces beyond them; veins mostly piceous, here and there tawny; poisers piceous, with tawny tips. Length of the body 8 lines; of the wings 16 lines.

- a. Quito. Presented by W. Hewitson, Esq.

PANGONIA tenuistria, n. s. *Cinereo-nigra, abdomine nigro albo univittato, pedibus piceis, femoribus nigris, alis limpidis basi fuscis.*

Resembles a *Bombylius*. Body grayish black: head thickly clothed beneath with black hairs: eyes dark piceous, with a metallic tinge: mouth black, hardly half the length of the body: feelers black: breast and sides of the chest clothed with black hairs: abdomen black, thickly clothed above and below with short black hairs, and having on the back a slender, short and irregular white stripe: legs very dark piceous: thighs black, clothed with short black hairs: wings colourless, pale brown towards the base which is dark brown; veins piceous, tawny along the fore border; poisers ferruginous with piceous tips. Length of the body 6 lines; of the wings 12 lines.

- a. Brazil. From Mr. Mornay's collection.

PANGONIA albithorax, *Macq. Dipt. Exot.* i. 107, 22.

- a. Chili. From Mr. Cuming's collection.

**PANGONIA crassa**, n. s., fem. *Rufo-fusca, capite subtus, pectore, thoracis vittis quinque scutelloque canis, abdomine ferrugineo, subtus flavo, apice piceo, segmentis fulvo fasciatis, pedibus fulvis, alis subcinereis marginibus anticis subfulvis.*

Head and chest dull pale reddish brown; underside of the former and the breast hoary: eyes black: mouth also black: lancets and feelers tawny: chest with five hoary stripes; scutcheon also hoary: abdomen ferruginous above, pale yellow beneath, piceous towards the tip; hind borders of the segments tawny and adorned with fringes of tawny hairs: legs tawny: wings with a very slight gray tinge, somewhat tawny along the fore border; veins piceous, tawny along the fore border and at the base; poisers yellow. Length of the body 5 lines; of the wings 10 lines.

a. New Holland?

**PANGONIA plana**, n. s., fem. *Fusca, capite pectoreque canis, thorace cano quinquevittato, abdominis fasciis ventrequae fulvis, pedibus piceis, alis limpidis aut subcinereis.*

Head hoary, clothed behind with hoary hairs and beneath with pale tawny hairs: eyes and eyelets piceous: palpi ferruginous; sucker piceous, reaching to the middle hips: feelers tawny; first joint gray, clothed with black bristles; third joint curved, with no horn nor angle: chest dark brown, clothed with tawny hairs, and having five hoary stripes, of these the two on each side are joined together by a transverse oblique band of the same colour: breast hoary, clothed with very pale tawny hairs: abdomen dark brown; hind borders of the segments tawny, clothed with bright tawny hairs; underside tawny, hind borders of the segments paler and clothed with pale tawny hairs: legs piceous: wings colourless, or very slightly gray; veins tawny, piceous towards the tips; poisers tawny; their clubs bright tawny, brown towards the base. Length of the body 6 lines; of the wings 12 lines.

a. New Holland. Presented by R. Brown, Esq.

**PANGONIA patula**, n. s., mas. *Nigra, abdominis apice ventrequae fulvis, capite subtus pectoreque pilis albis vestitis, thorace abdomineque pilis croceis ornatis, pedibus nigris, alis cinereis.*

Head tawny beneath, where it is thickly clothed with white hairs: mouth and eyes black, the former not much longer than the head: feelers black (?): chest black, clothed especially on each side and behind with saffron hairs: breast clothed with white hairs: abdomen black; hind borders of the segments saffron and clothed with hairs of the same colour, there is also a row of saffron spots on

the back; tip and underside of the abdomen tawny: legs black: wings gray, yellowish brown at the base and on the fore borders; wing-ribs and veins piceous; poisers tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 12 lines.

a. ———?

**PANGONIA parva**, n. s., mas. *Nigra, abdominis basi ventre suturisque fulvis, pedibus piceis, tibiis fulvis, alis limpidis.*

Body black, clothed with tawny hairs, which are most thick about the underside of the head and the breast: eyes black: mouth tawny, much longer than the head: base, underside, and hind borders of the segments of the abdomen bright tawny: legs piceous; shanks tawny, with black tips: wings colourless; wing-ribs and veins tawny; poisers tawny, with piceous knobs. Length of the body 4 lines; of the wings 7 lines.

a. South Africa. Presented by Dr. A. Smith.

**PANGONIA Roei**, King, Narr. Surv. Coasts of Austral. ii. 467, 185. *Weid. Auss. Zweif.* ii. 647, 72.

a. New Holland. Presented by the Earl of Derby.

b. New Holland. From Mr. Lambert's collection.

### ERODIORHYNCHUS, Serville.

**ERODIORHYNCHUS cristaloides**, Macq. *Dipt. Exot.* i. 1, 111, 1, pl. 16, f. 1.

a. Cape of Good Hope. From Mr. Children's collection.

### TABANUS, Linn.

**TABANUS atratus**, Fabr. *Syst. Ent.* 789, 9. *Ent. Syst.* iv. 366, 16. *Syst. Antl.* 96, 16. *Wied. Dipt. Exot.* i. 63, 2. *Auss. Zweif.* i. 114, 3. *Pal. Beauv. Ins.* 54, t. 1, f. 1.? *Harr. Ins. New Engl.* 405.

a. Delaware. Presented by E. Doubleday, Esq.

b. Massachusetts. From Prof. Sheppard's collection.

c. North America. Presented by the Entomological Club.

d. North America. From Mr. Children's collection.

e. North America.

**TABANUS validus**, Weid. *Auss. Zweif.* i. 113, 2.

a. Georgia. From Mr. Abbot's collection.

b. ———?

**TABANUS ruficornis**, *Fabr. Syst. Ent.* 789, 8. *Ent. Syst.* iv. 365. 14. *Syst. Antl.* 96, 14. *Wied. Dipt. Exot.* i. 62, 1. *Auss. Zweif.* i. 112, 1. *T. plumbeus*, *Drury, Ins.* i. t. 44, f. 2. *T. Americanus*, *Forster, Nov. Sp. Cent.* i. 100. *T. limbatus*, *Pal. Beauv. Ins.* 54, t. 1, f. 2.

- a. Florida. Presented by E. Doubleday, Esq.
- b. Massachusetts. From Prof. Sheppard's collection.
- c. North America. From Mr. Children's collection.
- d. North America.

**TABANUS impressus**, *Wied. Auss. Zweif.* i. 126, 23.

- a. Demerara. Presented by J. S. Bowerbank, Esq.
- b. Brazil. From Mrs. Noel's collection.
- c. Brazil.

**TABANUS lineatus**, *Fabr. Sp. Ins.* ii. 455, 4. *Ent. Syst.* iv. 363, 5. *Syst. Antl.* 94, 3. *Wied. Dipt. Exot.* i. 63, 3. *Auss. Zweif.* i. 115, 4.

- a. Georgia. From Mr. Abbot's collection.
- b. ———?

**TABANUS abdominalis**, *Fabr. Syst. Antl.* 96, 15. *Pal. Beauv. Ins.* 101, t. 2, f. 4. *Wied. Dipt. Exot.* i. 65, 6. *Auss. Zweif.* i. 116, 7.

- a. Florida. Presented by E. Doubleday, Esq.

**TABANUS imitans**, n. s., fem. *Rufus, abdomine obscuriore pilis albis vix bimaculato, antennis pedibusque ferrugineis, alis subfulvis.*

Nearly allied to *T. abdominalis*, but larger, the chest is almost without stripes, the horn on the third joint of the feelers is rather shorter, the white spots on the abdomen are hardly visible, the head between the eyes is red, not tawny as in *T. abdominalis*, the legs are somewhat paler, the cross-veins of the wings are clouded with paler brown colour, and are ferruginous in some parts when those of the other species are brown. Body red, covered with a slight white bloom: head clothed beneath with yellow hairs: feelers and palpi ferruginous: mouth black, sides of the chest clothed in front with black hairs, behind with whitish hairs: abdomen darker than the chest, clothed with short black hairs: hind borders of the segments thinly clothed with white hairs, which form two very indistinct spots on the back: legs ferruginous, clothed with white down and black hairs: wings slightly tawny, darker at the base and along the fore borders; cross-veins clouded with pale brown; veins ferruginous at the base, black towards the tips; poisers tawny, with bright yellow knobs. Length of the body 11 lines; of the wings 24 lines.

- a. Georgia. From Mr. Abbot's collection.

**TABANUS confusus**, n. s., fem. *Rufus, abdomine maculis albis univittato, antennis pedibusque ferrugineis, alis subfulvis.*

Much resembling *T. abdominalis*, but the legs are paler, the horn on the third joint of the feelers is much shorter, the stripes on the chest are hardly visible, the abdomen is narrower towards the tip, its spots are larger, the legs are paler, and the cross-veins of the wings are clouded with ferruginous colour. The description of *T. imitans* will apply to this species, but there are well-defined triangular spots of whitish hairs along the back of the abdomen; the hind borders of the segments are whitish, especially on the under-side, which is covered with white down: there are whitish hairs on each side of the abdomen, but no black hairs; the wing-veins are clouded only with tawny colour. Length of the body 10 lines; of the wings 22 lines.

a. Georgia. From Mr. Abbot's collection.

**TABANUS recedens**, n. s., fem. *Cinereus, thorace cano quinquevittato, abdomine, maculis albis univittato, antennis, pedibus, alisque fulvis.*

Body dark gray above, hoary beneath where the head and the sides of the breast are clothed with yellowish white hairs: mouth black: palpi and feelers tawny; third joint of the latter with an angle near the base: chest with five hoary stripes: a white stripe on the back of the abdomen, interrupted on the fore border of each segment, and widening very slightly towards the hind border: legs tawny, clothed with short white hairs; feet brownish tawny: wings dull tawny, which colour deepens at the base and still more on the fore borders: cross-veins clouded with brown; veins piceous. Length of the body 10 lines; of the wings 20 lines.

a. Florida. Presented by E. Doubleday, Esq.

**TABANUS proximus**, n. s., fem. *Obscurè rufus, abdomine nigro, antennis nigris basi rufis, pedibus nigris, femoribus apice tibiisque rufis, alis fulvis.*

Darker than *T. abdominalis*: body dark red: mouth black: palpi reddish brown: feelers black, dark red at the base: chest clothed with black hairs on each side; the stripes on its disk not distinct: abdomen black, covered with a hoary bloom: legs black; tips of thighs and shanks, excepting their tips, red: wings tawny, especially on the fore borders; veins piceous; cross-veins clouded with brown; poisers tawny. Length of the body 10 lines; of the wings 20 lines.

This species is very like *T. lineatus*, but the cell in the disks of the wing is more nearly closed on the hind border.

a. St. Louis, Florida. Presented by E. Doubleday, Esq.

**TABANUS catenatus**, n. s., fem. *Rufus, canescens, thorace cano quinquevittato, abdomine maculis dorsalibus trigonis albis fascisque albidis, antennis pedibusque rufis, alis limpidis, basi costæque fulvis.*

Body red, covered with a slight hoary bloom: head beneath and the sides of the breast clothed with white hairs: mouth black: feelers and palpi pale red; a very slight horn on the third joint of the former: chest with five hoary stripes: abdomen with a white triangular spot on the hind border of each segment of the back; hind borders of the segments whitish: legs red; knees tawny; feet almost black: wings colourless, tawny at the base and along the fore borders; veins piceous, bordered with tawny colour; poisers tawny. Length of the body 11 lines; of the wings 22 lines.

a. Massachusetts. From Prof. Sheppard's collection.

**TABANUS opulentus**, n. s., mas. *Atra, thorace rubiginoso, antennis pedibusque nigris, alis cinereis basi ferrugineis.*

Head black, and clothed with short black hairs beneath: eyes bronze, very large: mouth and feelers black: chest of a very deep rich dark red colour, downy: breast black, clothed with short black hairs: abdomen deep velvet-like black: legs black, pubescent: wings gray, dark ferruginous at the base and on the fore borders; wing-ribs and veins piceous; poisers black. Length of the body 9 lines; of the wings 17 lines.

a. ———? From Mr. Children's collection.

**TABANUS formosus**, n. s., mas. *Ferrugineus, thoracis disco abdominisque vitta nigris, antennis ferrugineis, pedibus fulvis, alis rufo-fuscis.*

Head tawny, and clothed beneath with hairs of the same colour: eyes brassy: mouth black: feelers ferruginous; third joint curved; horn on its base very small: chest grayish black, clothed with short down of the same colour; sides and breast ferruginous: abdomen ferruginous with a broad black stripe which is interrupted on the hind border of each segment, and occupies the whole of the three last segments; there are also three indistinct rows of pale yellow spots on the hind borders of the segments: legs tawny; feet ferruginous: wings reddish brown, darker at the base and the fore borders, and along the cross-veins; wing-ribs and veins piceous; poisers tawny. Length of the body 10 lines; of the wings 18 lines.

a. ———? From Mr. Children's collection.

*TABANUS rufus*, *Pal. Beauv. Ins.* 100, t. 2, f. 1. *Wied. Auss. Zweif.* i. 117, 8.

a. Georgia. From Mr. Abbot's collection.

*TABANUS molestus*, *Say, Journ. Acad. Philad.* iii. 1822, 31, 1. *Wied. Auss. Zweif.* i. 125, 21.

a. North America.

*TABANUS turbidus*, *Wied. Auss. Zweif.* i. 124, 20.

a. Illinois. Presented by E. Newman, Esq.

b. ———?

*TABANUS variegatus*, *Fabr. Syst. Antl.* 95, 10. *Wied. Dipt. Exot.* i. 67, 11. *Auss. Zweif.* i. 120, 13.

a. Ohio. Presented by the Entomological Club.

b. Illinois. Presented by E. Newman, Esq.

*TABANUS fusco-nervosus*, *Macq. Dipt. Exot.* i. 147, 53.

a. Florida. Presented by E. Doubleday, Esq.

*TABANUS stygius*, *Say, Journ. Acad. Philad.* iii. 1822. 33, 3. *Wied. Auss. Zweif.* i. 131, 31.

a. Florida. Presented by E. Doubleday, Esq.

*TABANUS Cerberus*, n. s., fem. *Niger, capite thoraceque pilis aurco-fulvis ornatis, antennis pedibusque nigris, alis nigro-cinereis.*

Body black, broad: head clothed above, and more thickly beneath with golden hairs: eyes, mouth, and feelers black, an angle at the base of the third joint of the latter: chest piceous, clothed with tawny hairs: breast clothed with black hairs: abdomen shining: legs black, pubescent: wings grayish black, paler towards the tips; wing-ribs and veins piceous; the latter slightly clouded with the same colour; poisers black. Length of the body 8 lines; of the wings 20 lines.

a. South Africa. From Mr. Argent's collection.

*TABANUS calens*, *Linn. Syst. Nat.* ii. 1000, 6. *Fabr. Ent. Syst.* iv. 364, 9. *Syst. Antl.* 94, 7. *Deg. Ins.* vi. 226, 1. *Wied. Dipt. Exot.* i. 72, 19. *Auss. Zweif.* i. 134, 36.

a. Nova Scotia. From Lieut. Redman's collection.

*TABANUS fumipennis*, *Weid. Auss. Zweif.* i. 119, 11.

a. North America.

*TABANUS testaceus*, *Macq. Dipt. Exot.* i. 133, 23.

a. Brazil.



**TABANUS subvarius**, n.s., fem. *Fulvis, capite ferrugineo subtus albo, abdomine ferrugineo, basi fulvo, subtus basi maculis nigris et piceis vario, pedibus fulvis, alis cinereis basi marginibusque anticis fulvis.*

Head ferruginous, white behind, and clothed with white hairs beneath: eyes and mouth piceous: the latter about half the length of the chest: feelers bright tawny, dull ferruginous at the base: chest dull tawny, clothed with tawny hairs; scutcheon and breast pale tawny, the latter clothed with yellowish white hairs: abdomen ferruginous: first and second segments of the back tawny; underside with the first and second segments tawny, the first has a small piceous spot on each side, the second has a large black spot on each side, the third and the fourth are black in the middle, ferruginous along the borders: legs tawny: wings gray, tawny at the base and along the fore borders; veins ferruginous; poisers yellow. Length of the body 9 lines; of the wings 18 lines.

a. Venezuela. From Mr. Dyson's collection.

**TABANUS microcerus**, n. s., fem. *Ferrugineus, alis concoloribus vittis nonnullis abbreviatis limpidis.*

Body ferruginous, as are also all the limbs, except the eyes and the eyelets, which are piceous: wings ferruginous; each areolet including a more or less distinct colourless stripe; veins and poisers also ferruginous. Length of the body 8 lines; of the wings 14 lines.

a ——— ?

**TABANUS posticus**, Wied. Auss. Zweif. i. 152, 64.

a. New Holland. Presented by the Haslar Hospital.

**TABANUS cinerascens**, King, Nar. Surrey, Coasts of Austral. ii. 467, 184, Wied. Auss. Zweif. ii. 647, 71.

a. New Holland. Presented by J. Hunter, Esq.

b. New Holland. From Mr. Children's collection.

**TABANUS conformis**, n. s., fem. *Ferrugineus, capite subtus albo, thoracis disco fusco ferrugineoque bivitato, abdominis lateribus fascisque fulvis, apice fusco, pedibus fulvis, tarsis piceis, alis subcinereo fulvis.*

Head ferruginous, white beneath: eyes bronze colour: palpi and feelers tawny, the latter wanting except at the base: sucker piceous: chest ferruginous; its disk with a narrow ferruginous stripe on each side: breast paler, with a hoary bloom, and clothed with yellow hairs: abdomen ferruginous, brown at the tip; hind

borders and sides of the segments tawny: legs tawny; hips paler, with a hoary bloom; feet piceous: wings with a slight grayish tawny tinge; veins brown, darker along the fore border, tawny towards the base; poisers yellow. Length of the body 9 lines; of the wings 16 lines.

*a. Congo.*

**TABANUS derivatus**, n. s., mas. *Rufus, thorace cano obsolete trivittato, antennis pedibusque fulvis, tibiis anticis tarsisque apice tarsisque anticis omnino fulvis, alis cinereo-fulvis.*

Body red: head beneath and breast covered with a hoary bloom, and clothed with whitish hairs: mouth brown; feelers and palpi tawny; third joint of the former with a very short angle: chest with four very indistinct hoary stripes that occupy almost the whole back: legs red; hips covered with a hoary bloom; fore feet and tips of fore shanks and of four hinder feet black: wings pale grayish tawny, darker along the fore borders; veins piceous; poisers tawny. Length of the body 9 lines; of the wings 18 lines.

*a. North America. From Mr. Children's collection.*

**TABANUS ferreus**, n. s., mas. *Ferrugineus, capite subtus fulvo, pedibus piceis, alis flavo-fuscis, apicibus marginibusque posticis cinereis.*

Body ferruginous: head dull tawny and clothed with black hairs beneath: eyes brassy: palpi piceous: sucker and feelers black; first and second joints of the latter clothed with black hairs; third long, curved, armed at the base with a long curved horn: chest and breast clothed with short black hairs: abdomen paler beneath; hind borders of the segments clothed with pale tawny hairs: legs piceous: wings yellowish brown, gray at the tips and along the hind borders; veins ferruginous; poisers brown, with tawny tips. Length of the body 9 lines; of the wings 18 lines.

*a. Brazil. Presented by Sir C. Stewart.*

**TABANUS univentris**, n. s., fem. *Fuscus, capite subtus flavo, thorace fusco trivittato, abdomine ferrugineo apice fusco, pedibus piceis, tibiis fulvis, alis cinereis basi marginibusque anticis fulvis.*

Head tawny, with an oblong brown shining spot in front between the eyes, pale yellow beneath and clothed with hairs of the same colour: eyes black: palpi pale reddish brown, clothed with short yellow hairs; lancets ferruginous; sucker piceous: feelers piceous; first and second joints very short, each forming an angle above; third long, pointed, much curved, with an angle above at

the base: chest dull tawny, with three broad brown stripes: breast pale tawny, rather thickly clothed with pale yellow hairs: abdomen ferruginous; the hind borders of the segments and an indistinct broad stripe along the back are paler; the last segment is brown; legs piceous; hips and thighs clothed with pale yellow hairs; shanks and feet clothed also with short black hairs, the former are tawny with piceous tips: wings gray, tawny towards the base and along the fore borders; veins ferruginous, piceous towards the tips; poisers tawny, with bright yellow knobs. Length of the body 9 lines; of the wings 16 lines.

a. Borneo. Presented by the Admiralty.

*TABANUS orientis*, fem. *Cinereus, capite cano, pectore fulvo, abdomine ferrugineo apice nigro, antennis ferrugineis, pedibus ferrugineo-fulvis, femoribus cinereis, alis ferrugineo-cinereis.*

Head hoary, whitish beneath where it is clothed with white hairs: eyes brassy: mouth piceous; palpi tawny: feelers ferruginous, black towards the tips, with a slight angle on the base of the third joint; chest gray, slightly covered with tawny hairs; sides and breast tawny with a hoary bloom, and thinly clothed with hoary hairs: abdomen ferruginous; hind borders of the segments pale tawny; fourth segment with a large black spot on each side; sixth and seventh segments all black: legs gray; shanks and tips of thighs tawny; feet and tips of shanks dark ferruginous; fore feet piceous: wings slightly gray, pale ferruginous at the base, on the fore borders and along the veins; wing-ribs and veins ferruginous; poisers tawny. Length of the body 8 lines; of the wings 16 lines.

a. Nepal.

*TABANUS fulvimedius*, n. s., fem. *Cinereus, capite subtus pectoreque canis, abdomine fulvo, basi apice vittaque nigris, antennis ferrugineis, pedibus nigro-cinereis, tibiis fulvis, alis subcinereis.*

Head dull black, hoary beneath: mouth tawny; sucker piceous: feelers ferruginous, black towards the tips; angle on the third joint very small; eyes brassy: chest dark gray with three paler stripes: breast hoary, thickly clothed with white hairs: abdomen tawny, grayish black on the base of the first segment; a stripe on the second and third segments, and the whole of the following segments grayish black, excepting their hind borders: legs grayish black; shanks tawny: wings pale gray, with a slight tawny tinge; wing-ribs and veins piceous; poisers tawny. Length of the body 7 lines; of the wings 14 lines.

**TABANUS flammans**, n. s., fém. *Rufus, thorace nigro quadrivittato, abdominis vittâ apiceque nigris, antennis pedibusque fulvis, alis fusco-fulvis.*

Body red: head brown on the crown between the eyes, with four black spots beneath, and clothed with bright tawny hairs behind: mouth black: palpi and feelers tawny; the horn on the third joint of the latter very short and small: chest with four indistinct black stripes that are confused together on the disk; disk of the breast also black: abdomen darker towards the tip beneath; a black stripe on the back extends from the base to beyond the middle, where it widens and occupies the whole back to the tip: legs bright tawny; fore feet and tips of the four hinder feet darker: wings brownish tawny; veins ferruginous; poisers tawny, with bright yellow knobs. Length of the body  $9\frac{1}{2}$  lines; of the wings 22 lines.

a. ———?

**TABANUS calens**, Linn. *Syst. Nat.* ii. 1000, 6. *Dey. Ins.* vi. 226, 1. *Fabr. Ent. Syst.* iv. 364, 9. *Syst. Anth.* 94, 7. *Wied. Dipt. Exot.* i. 72, 19. *Auss. Zweif.* i. 134, 36.

a. Nova Scotia. From Lieut. Redman's collection.

**TABANUS Pluto**, n. s., fém. *Piceus, thorace nigro-fusco piceo viz vittato, abdomine fasciis duobus angustis vittisque totidem latis-  
sinis aureis, antennis nigris, pedibus nigro-cinereis, alis sub-  
nigris.*

Body piceous: head covered with hoary down above, hoary and clothed with white hairs beneath: eyes bronze: mouth black: palpi yellowish white: feelers black; third joint with a slight angle at the base: chest dark brown, with very indistinct piceous stripes, and with a slight hoary bloom, as has also the breast which is clothed with white hairs: sides of the abdomen beneath thinly clothed with white hairs; on the back a broad golden stripe occupies two-fifths of the breadth on each side from the base till near the tip, and these stripes are united together by two narrow bands of the same colour: legs dark gray, clothed with short white hairs: wings almost black; veins black: poisers piceous. Length of the body 11 lines; of the wings 22 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**TABANUS cinctus**, *Fabr. Ent. Syst.* iv. 366, 18. *Wied. Dipt. Exot.* i. 67, 10. *Auss. Zweif.* i. 119, 12.

a. Mexico. Presented by the Entomological Club.

**TABANUS sorbillans**, *Wied. Auss. Zweif.* i. 141, 48.

a. Brazil. Presented by Mrs. J. P. G. Smith.

**TABANUS indicus**, *Fab. Syst. Antl.* 103, 48. *Wied. Dipt. Exot.* i. 75, 26. *Auss. Zweif.* i. 144, 53.

a. Nepaul. From the Hardwicke bequest.

**TABANUS leucophilus**, n. s., fem. *Ferrugineus, capite albo, thorace cano quinquevittato, abdomine flavo-fusco maculis flavis trivittato, subtus fusco univittato, pedibus ferrugineis, tibiis flavis, alis albis.*

Head white, with a shining ferruginous spot between the eyes, thickly clothed with white hairs beneath: eyes bronze: palpi yellowish white; sucker ferruginous: feelers tawny; third joint ferruginous, curved, with an angle at the base: chest and breast ferruginous; chest with five hoary stripes; shoulders bright tawny; breast clothed with yellow hairs: abdomen yellowish brown, clothed with short yellow hairs, and adorned with three rows of pale yellow triangular spots; a broad dark brown stripe on the underside: legs ferruginous; shanks yellow, with ferruginous tips: wings white; veins yellow, tawny at the base; poisers yellow. Length of the body 8 lines; of the wings 16 lines.

a. New Holland.

**TABANUS rubidus**, *Wied. Dipt. Exot.* i. 69, 14. *Auss. Zweif.* i. 127, 25.

a. East Indies. From Archdeacon Clerk's collection.

**TABANUS amabilis**, n. s., fem. *Fuscus, thoracis vittis quinque pectoreque canis, capite albo, abdomine maculis albis trivittato, ventre fulvo, antennis tarsisque nigris, femoribus canis, tibiis fulvis, alis picco quadrimaculatis.*

Head white and thickly clothed beneath with snow-white hairs: eyes coppery: mouth black; palpi pale yellow: feelers black, ferruginous at the base; third joint slightly curved, with a very small horn at the base: chest brown, with five hoary stripes; sides tawny; breast hoary, thickly clothed with white hairs: back of abdomen clear yellowish brown, with three rows of white spots; side spots elliptical, oblique, decreasing in size on each successive segment from the base to the tip; middle spots triangular, that on the first segment is nearly round, and is connected with the second spot, which is the largest; the third spot is almost obsolete; the fourth and the fifth are of moderate size; the sixth and the seventh are very small, and the latter is hardly visible; underside tawny, with a broad white stripe on each side: legs pubescent; hips and thighs hoary; shanks bright tawny; feet and tips of shanks black: wings colourless, with four piceous spots formed by the clouded cross-veins;

there is also a small narrow piceous brand on the fore border: wing-ribs piceous; veins black; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. ——— ? From Mr. Children's collection.

**TABANUS auriflamma**, n. s., fem. *Lætè fulvus, thorace vittis tribus fulvescentibus, abdomine nigro fasciato, pedibus fulvis, alis flavis maculis nonnullis apicibus marginibusque posticis fuscis.*

Body very bright tawny: feelers and mouth of the same colour: eyes piceous: chest with three dull tawny stripes; the middle one extremely broad: fore borders of abdominal segments black from the second to the fifth; the bands successively and rapidly decreasing in breadth; legs bright tawny: wings yellow, brown along the hind borders and at the tips; a few long narrow spots in the areolets of the yellow part; veins tawny, piceous in the brown part of the wing; poisers bright tawny. Length of the body 10 lines; of the wings 18 lines.

a. Silhet. From Mr. Stainforth's collection.

**TABANUS chrysophilus**, n. s., fem. *Fulvus, aureo pilosus, thorace fusco trivittato, pectoris disco ferrugineo, abdomine nigro apice ferrugineo, segmentis fulvo fasciatis, pedibus ferrugineis, alis fulvis, vittis apicibus marginibusque posticis sublimpidis.*

Body tawny: head clothed beneath with golden hairs: eyes black: palpi bright ferruginous: sucker piceous: feelers ferruginous; third joint bright tawny, long, curved, with no tooth nor angle at the base, ferruginous at the tip: chest with three broad dark brown stripes; the side stripes interrupted; disk of the breast ferruginous: abdomen black, ferruginous at the tip; hind borders of the segments tawny, and adorned with broad fringes of golden hairs: legs ferruginous; hips tawny: wings bright tawny, nearly colourless at the tips and along the hind borders; there are also some narrow indistinct colourless stripes along the areolets, and two more distinct stripes beneath the fore border; veins tawny, piceous towards the tips of the wings; poisers ferruginous; their knobs bright tawny. Length of the body 9 lines; of the wings 18 lines.

a. ——— ?

**TABANUS maroccanus**, *Fabr. Syst. Antl.* 93, 2. *Latr. Cuv. Regn. Anim. nouv. edit.* v. 476. *T. taurinus*, *Meig. Dipt.* ii. 42, 17, t. 13, f. 23.

a. Tangier. From Mr. Fraser's collection.

**TABANUS albipes**, *Fabr. Ent. Syst.* iv. 364, 11. *Syst. Anth.* 95, 9. *Geoff. Ins.* ii. 460, 3. *Schæf. Icm.* t. 182, f. 2, 3. *Latr. Gen. Crust.* iv. 283. *Meig. Dipt.* ii. 45, 20. *Macq. Hist. Nat. Dipt.* i. 200, 10. *T. gigas*, *Herbst. Gem. Nat.* viii. 112, t. 342, f. 2.

a. South of France. From Dr. Leach's collection.

**TABANUS tarandinus**, *Linn. Faun. Suec.* 1884. *Gmel. Ed. Syst. Nat.* v. 2882, 7. *Fabr. Sp. Ins.* ii. 457, 8. *Ent. Syst.* iv. 364, 10. *Syst. Anth.* 95, 8. *Fall. Dipt. Suec.* 4, 2. *Meig. Dipt.* ii. 44, 19.

a. Torneo. From Mr. Walker's collection.

**TABANUS Tarandi**, n. s., fcm. *Niger, thorace ferrugineo bimaculato, abdomine nigro-fusco, fasciis dorso albis lateribusque flavis, antennis pedibusque fulvis, alis fulvo-subcinereis.*

Represents *T. Tarandinus* of Europe. Body black: head gray above, white and shining above the base of the feelers, clothed beneath with tawny and brown hairs: mouth black; palpi brown: feelers bright tawny, brown at the base, black at the tips: chest with a dull ferruginous spot on each side near the wing-ribs: abdomen dark brown; a white band on the hind border of each segment, one-third of whose breadth is occupied on each side by a band of yellow hairs; bands on the underside yellow, and clothed with a few yellow hairs; sides of the base of the abdomen, and sides of the chest thinly clothed with black hairs: legs bright tawny, and clothed with hairs of the same colour; hips and thighs dark brown, excepting the tips of the latter; fore feet and tips of the fore shanks black: wings slightly gray, tawny at the base, and along the fore borders, and more slightly so along the borders of the veins; wing-ribs, veins, and poisers also tawny. Length of the body 8 lines; of the wings 16 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Newfoundland. Presented by W. C. St. John, Esq.

**TABANUS flavipes?** *Wied. Auss. Zweif.* i. 137, 40.

Wiedmann describes *T. flavipes* as having black poisers, in this insect they are tawny.

a. Nova Scotia. From Lieut. Redman's collection.

**TABANUS affinis**, *Kirby, North Amer. Zool. Ins.* 313, 1.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**TABANUS zonalis**, Kirby, *North Amer. Zool. Ins.* 314, 2.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**TABANUS melanocerus**, Wied. *Auss. Zweif.* i. 122, 16.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**TABANUS striatus**, Fabr. *Ent. Syst.* iv. 371, 39. *Syst. Antl.* 103 47. *Wied. Dipt. Exot.* i. 79, 33. *Auss. Zweif.* i. 155, 69.

a. North Bengal. From Miss Campbell's collection.

b. North India. From Mr. Walker's collection.

c. East India. Presented by the Entomological Club.

d. East India.

**TABANUS brevivitta**, n. s., mas. *Rufo-fuscus, capite flavo-albo, thorace fulvo bivittato, scutello ferrugineo, pectore flavo, pedibus fulvis, tibiis tarsisque ferrugineis, alis limpidis, fusco trimaculatis, basi marginique antico fulvis.*

Head yellowish white, clothed beneath with long hairs of the same colour: eyes coppery, darker in front: palpi pale yellow: sucker piceous: feelers tawny; first and second joints beset with black bristles; third joint wanting: chest reddish brown, with two short tawny stripes that extend from the fore border along half the length of the back; scutcheon ferruginous; sides and breast pale yellow, and clothed like the chest with yellow hairs; the fore borders of the second, third, fourth, and the whole of the following segments are pale reddish brown: hips and thighs tawny, and clothed with pale hairs; tips of the latter and shanks ferruginous and clothed with darker hairs; feet dark ferruginous: wings colourless; base and fore border tawny, and there are three irregular brown spots along the disk; the third, which is the largest, touches the fore border near the tip; veins piceous, tawny at the base and along the fore borders; poisers bright yellow with green knobs. Length of the body 8 lines; of the wings 14 lines.

a. New Holland. From Mr. Gould's collection.

**TABANUS oculus**, n. s., fem. *Rufo-fuscus, capite subtus, pectoreque canis, thorace maculâ nigra fulvo circumdato, abdomine flavo-albo fasciato, pedibus ferrugineis, profemoribus piceis, protibiis fulvis, protarsis nigris, alis subfuscis basi marginibusque anticis subfulvis.*

Head reddish brown, hoary behind and beneath, where it is clothed with white hairs: eyes piceous: mouth hoary; sucker piceous: feelers ferruginous with black tips: chest reddish brown;



on its back and occupying the scutcheon and adjoining part there is a large nearly round deep black spot enclosed in a pale tawny rim : breast hoary, clothed with white hairs : abdomen reddish brown ; hind borders of the segments yellowish white, thinly fringed with short hairs of the same colour : legs ferruginous, clothed like the chest with silvery hairs ; fore thighs piceous ; fore shanks pale tawny, with black tips ; fore feet black : wings pale brown, rather darker, and with a tawny tinge at the base and along the fore border ; veins piceous ; poisers ferruginous with tawny tips. Length of the body 8 lines ; of the wings 16 lines.

a. Honduras. From Mr. Dyson's collection.

b. Columbia. Presented by M. Goudot.

*TABANUS bipartitus*, n. s., fem. *Rufus, capite flavo-albo, thorace maculâ picea flavo circumdata, abdomine piceo basi rufo, pedibus ferrugineis, tarsis anticis piceis, alis cinereis basi marginibusque anticis fulvis.*

Head yellowish white, clothed with hairs of the same colour : eyes black : palpi pale yellow ; lancets ferruginous : sucker piceous : chest dull red, clothed with very short tawny hairs ; breast paler and clothed with longer yellowish white hairs ; the back of the chest, like that of *T. oculus*, has a piceous spot enclosed in a pale yellow rim : abdomen piceous, longer than that of *T. oculus* ; first and second segments red, and there is a little red about the sutures of the other segments ; legs ferruginous ; fore thighs rather darker ; fore feet and tips of fore shanks piceous : wings gray, tawny at the base and along the fore borders ; veins tawny at the base, piceous towards the tips, where the two cross-veins are clouded with brown ; poisers pale yellow. Length of the body  $9\frac{1}{2}$  lines ; of the wings 14 lines.

a. Honduras. From Mr. Miller's collection.

*TABANUS præpositus*, n. s., fem. *Canus, capite flavo albo, pectore albo, abdomine fulvo vitta maculâ apiceque piceis, pedibus fulvis, alis subfulvis.*

Head yellowish white, clothed beneath with hairs of the same colour : a shining brown spot between the eyes which are black : feelers bright pale red, pale yellow at the base : chest hoary : breast white, clothed with white hairs : abdomen tawny, clothed with short white hairs ; its back has a broad piceous band at the base, and a spot on the fourth segment ; and all the following segments are piceous, with the exception of their hind borders : legs tawny ; tips of the feet piceous : wings with a slight tawny tinge, especially

at the base and along the fore border; veins tawny; poisers pale tawny. Length of the body 7 lines; of the wings 14 lines.

Var.  $\beta$ . Tips of the feelers black.

Var.  $\gamma$ . Nearly the whole of the back of the abdomen piceous.

a. Port Essington. Presented by the Earl of Derby.

TABANUS lasiophthalmus? *Macq. Dipt. Exot.* i. 143.

a. Columbia. Presented by M. Goudot.

TABANUS hebes, n. s., fem. *Cinereus, thorace cano quadrivittato, abdomine ferrugineo, fulvo cincto maculisque cinereis univittato, antennis pedibusque fulvis, alis subcinereis.*

Head brown above, covered with a hoary down, pale tawny, and slightly clothed with white hairs beneath: mouth black; palpi tawny: feelers tawny, more or less black towards the tips: chest gray, with four hoary stripes; sides and breast tawny, the latter clothed with hoary down: abdomen ferruginous; each segment with a broad tawny band along the hind border, which is whitish; there is also a whitish stripe on the back; the first segment has a large gray spot which surrounds the hind border of the scutcheon; the following segments have forked gray spots, which successively decrease in size until the fifth segment when the spot is nearly obsolete, but on the sixth it is larger and nearly semicircular, and on the seventh it occupies nearly the whole back; under-side ferruginous; hind borders of the segments pale tawny: legs tawny; hips hoary; fore thighs and hind thighs, and sometimes middle thighs, gray with tawny tips; fore feet and tips of fore shanks piceous: wings slightly gray; wing-ribs and rib-veins ferruginous; veins black; poisers tawny. Length of the body 6—7 lines; of the wings 12—14 lines.

a. Africa (Cape?) From Mr. Children's collection.

TABANUS attenuatus, n. s., mas. *Fulvus, capite pectoreque albis, abdomine ferrugineo flavo vittato, pedibus fulvis, tarsis piceis, alis subcinereis, marginibus anticis fulvis.*

Nearly allied to *T. elongatus*? Head white, clothed beneath with white hairs: eyes tawny with a coppery tint, bronze beneath where the facets are smaller: palpi yellow: feelers bright tawny, with brown tips: chest bright pale tawny, clothed with hairs of the same colour: breast almost white, covered with long white hairs: abdomen pale ferruginous, clothed with pale yellow hairs, and having a broad pale yellow linear stripe along its whole length: legs tawny; feet and tips of the shanks piceous: wings slightly gray, tawny along the fore border for two-thirds of the length; veins

tawny, piceous at the tips ; poisers pale tawny. Length of the body 8 lines ; of the wings 14 lines.

*a. South America.*

**TABANUS confinis**, n. s., mas. *Fuscus, capite pectoreque albis, thorace albo quinquevittato, abdomine fulvo flavo univittato apice piceo, pedibus fulvis, tarsis propedibusque fuscis, alis subcinereis, marginibus anticis fuscis.*

Head white, clothed beneath with white hairs : eyes tawny with a coppery tinge, and having a broad bronze band above, and a narrow line of the latter colour with smaller facets beneath : palpi yellow ; sucker piceous : feelers tawny, pale yellow at the base, black at the tips : chest pale brown, clothed with hairs of the same colour, and adorned with five slender white stripes : breast white, clothed with white hairs : abdomen tawny, piceous towards the tip, and having a broad yellow stripe along its whole length, this stripe is narrower towards the tip : legs tawny ; feet and fore legs brown : wings slightly gray, brown along the fore border, and having a darker band ; veins piceous ; poisers tawny with yellow knobs. Length of the body 5 lines ; of the wings 10 lines.

*a. South America.*

**TABANUS terminus**, n. s., mas. *Flavo-fuscus, capite pectoreque flavo-albis, abdomine fulvo vittâ fasciisque pallidioribus, pedibus fulvis, tarsis anticis piceis, alis subfuscis.*

Head yellowish white, clothed beneath with white hairs : eyes tawny with a coppery tinge, bronze and with smaller facets beneath : palpi yellow : sucker piceous : feelers tawny : chest pale yellowish brown, clothed with brown hairs : breast yellowish white, clothed with hairs of the same colour : abdomen tawny, with a broad and somewhat paler stripe along the back ; hind borders of the segments tawny : legs tawny ; feet darker ; fore feet and tips of fore shanks piceous : wings very pale brown, darker along the fore borders, and having still darker brands ; veins ferruginous, piceous towards the tips ; poisers tawny. Length of the body 6 lines ; of the wings 12 lines.

*a. Para. Presented by Gordon Graham, Esq.*

**TABANUS socius**, n. s., fem. *Fuscus, capite flavo subtus albo, thorace cinereo quinquerittato, pectore fulvo nigroque vario, abdomine nigro fulvo trivittato, basi ventreque ferrugineis, pedibus nigris, femoribus fulvis, tarsis piceis, alis subcinereis.*

Head yellow, white and adorned with white hairs beneath : eyes piceous : mouth pale yellow ; sucker black : chest dark brown, with

five gray stripes: breast varied with tawny and black: abdomen black, ferruginous towards the base, and having three tawny stripes; under-side ferruginous, pale tawny on each side, black at the tip: legs black; thighs tawny; feet piceous: wings very slightly gray: veins piceous; poisers pale yellow. Length of the body 9 lines; of the wings 16 lines.

a. South Africa. Presented by Dr. A. Smith.

*TABANUS rubicundus*, n. s., fem. *Rufus, thorace fusco quinquevittato, abdomine nigro quadrivittato, pedibus nigris, tibiis rufis, alis limpidis.*

Body red: head clothed beneath with yellow hairs: eyes piceous: mouth pale yellow; sucker and feelers black: chest with five brown stripes: breast also striped with brown: abdomen with four black stripes, of which the middle two are connected together on the fore borders of several segments; under-side black at the tip: legs black; shanks red, clothed with white down: wings colourless; veins piceous; poisers bright pale tawny. Length of the body  $8\frac{1}{2}$  lines; of the wings 16 lines.

a. South Africa. Presented by the Earl of Derby.

*TABANUS posticus*, Wied. *Auss. Zweif.* i. 152, 64.

a. New Holland. Presented by R. Brown, Esq.

*TABANUS inscitus*, n. s., fem. *Fulvus, capite subtus albido, thorace fusco quinquevittato, pectore cano, abdomine vittâ flava fusco circumdata, apice nigro, pedibus cinereo-fulvis, femoribus tarsisque anticis nigris, alis cineris.*

Head tawny, nearly white, and clothed with pale yellow hairs beneath: eyes green and purple: mouth pale tawny; sucker black: feelers ferruginous, with piceous tips; third joint with an angle at the base: chest dull tawny, with five brown stripes, the middle one broad, the two outer short and slender: breast hoary, clothed with pale yellow hairs: abdomen bright tawny; hind borders of the segments pale tawny; three last segments black, their sides and hind borders pale tawny; a broad brown stripe along the whole length of the abdomen includes a pale yellow stripe, which extends from the third to the sixth segment; under-side tawny, with a short broad piceous stripe at the tip: legs gray; shanks tawny; feet darker tawny; fore legs black; fore shanks tawny, with piceous tips: wings gray; veins black, piceous at the base and along the fore borders; brands brown, narrow and long; poisers tawny, with yellow knobs. Length of the body  $7\frac{1}{2}$  lines; of the wings 14 lines.

a. Silhet. From Mr. Sowerby's collection.

**TABANUS mentitus**, n. s., mas. *Flavo-fuscus, capite fulvo, pectore cano, abdomine ferrugineo, maculis nigris albisque univittato, apice piceo, pedibus piceis, tibiis ferrugineis, alis subcinereis. marginibus anticis subfulvis*

Head pale tawny in front, still paler beneath, where it is clothed with yellowish white hairs: eyes piceous: mouth pale tawny; sucker piceous: feelers ferruginous; third joint piceous, except the base: chest pale yellowish brown: breast hoary: abdomen ferruginous, piceous at the tip; a fringe of short tawny hairs along the hind border of each segment, which has also a black triangular spot on its back; these spots are accompanied by white spots, which decrease in size towards the base of the abdomen, whereas the size of the black spots increases in that direction: legs piceous: shanks ferruginous, with piceous tips: wings slightly gray, with a tawny tinge along the fore borders; veins piceous; poisers ferruginous, with tawny tips. Length of the body 8 lines; of the wings 15 lines.

a. China. Presented by G. T. Lay, Esq.

**TABANUS tibialis**, n. s., fem. *Fuscus, capite pectoreque fulvis, thorace fulvo quadrivittato, abdominis fuscis tibiis ventrequ fulvis, pedibus fulvis, femoribus anticis tarsisque piceis, alis fuscis.*

Head tawny, paler beneath, where it is thickly clothed with pale tawny hairs: eyes dark piceous: mouth pale tawny; sucker black: chest brown, with four tawny stripes: breast tawny, clothed with tawny hairs: abdomen brown, with three tawny stripes, the side stripes interrupted; under-side tawny: legs dull tawny; thighs darker than the shanks; feet and fore legs piceous, shanks of the latter pale tawny with piceous tips: wings brown, paler towards the tips; veins piceous; poisers pale tawny. Length of the body  $9\frac{1}{2}$  lines; of the wings 18 lines.

a. West Africa. From Mr. Fraser's collection.

**TABANUS lividus**, n. s., fem. *Rufescens, capite subtus pectore thoracisque apice canis, abdominis apice piceo, pedibus fulvis, alis fuscis apice cinereis.*

Body dull red, with a gray bloom, thinly clothed with pale red hairs: head beneath, breast, and chest at the tip, hoary and clothed with white hairs: eyes dark piceous: mouth pale red; sucker black: abdomen clothed with yellow down, which forms on each side a large spot, beyond which and at the tip it is piceous: legs tawny: wings brown for more than half the length, gray thence to the tips; veins piceous; poisers dull tawny, with luteous knobs. Length of the body 8 lines; of the wings 16 lines.

a. Para. Presented by Reginald Graham, Esq.

**TABANUS trilineatus**, *Latr. Humb. et Bonpland Rec. des Obs. de Zool. fasc. x. 116, 117, t. xi. f. 6. Wied. Dipt. Exot. i. 84, 40. Auss. Zweif. i. 168, 87.*

a. Brazil. Presented by Sir C. Stewart.

b. South America. From Mr. Warwick's collection.

c. ——— ?

**TABANUS occidentalis**, *Linn. Syst. Nat. ii. 1001, 13. Deg. Ins. vi. 228, 3, t. 30, f. 3. Fabr. Ent Syst. iv. 368, 27. Syst. Antl. 99, 30. Wied. Dipt. Exot. i. 82, 37. Auss. Zweif. i. 171, 90.*

a. Para. Presented by Reginald Graham, Esq.

b. Brazil. Presented by Mrs. J. P. G. Smith.

**TABANUS bicolor**, *Wied. Dipt. Exot. i. 96, 58. Auss. Zweif. i. 188, 115.*

a. North America.

**TABANUS sinicus**, n. s., mas. *Fuscus, capite pectoreque canis, thorace fulvo trivittato, abdomine rufo-fusco, fulvo univittato, apice piceo, segmentis fulvo utrinque maculatis, ventre ferrugineo flavo fasciato, apice piceo, pedibus piceis, tibiis fulvis, alis subcinereis marginibus anticis fulvis.*

Head hoary, thickly clothed beneath with pale yellow hairs: eyes brassy, dark cupreous in front: palpi tawny; snucker piceous; feelers tawny; first and second joints forming angles above, as usual; third ferruginous, slender, curved, pointed, piceous towards the tip, with an angle at the base above: chest brown, clothed with pale brown hairs, and having three indistinct dull tawny stripes: breast hoary, thickly clothed with yellow hairs: abdomen reddish brown, piceous towards the tip, clothed with yellow hairs, and having a single linear tawny stripe, and also a tawny spot on each side of every segment; under-side pale ferruginous; hind borders of the segments yellow and fringed with yellow hairs; three last segments piceous: legs piceous; hips and thighs clothed with yellow hairs; shanks and feet clothed with black hairs; shanks tawny, with piceous tips: wings slightly gray, tawny along the fore borders; veins ferruginous, piceous towards the tips; poisers tawny, with yellow knobs. Length of the body  $8\frac{1}{2}$  lines; of the wings 16 lines.

a. Hong-Kong, China. Presented by J. C. Bowring, Esq.

**TABANUS amœnus**, n. s., mas. *Piceus, thorace fulvo trivittato, capite pectoreque canis, abdomine cano fasciato maculisque albis trivittato, pedibus nigro-cinereis, antennis tibiisque ferrugineis, alis fusco-cinereis.*

Head hoary, clothed beneath with white hairs: eyes red: mouth black: feelers ferruginous, black towards the tips, and having a

slight angle at the base of the third joint: chest piceous, with a tawny bloom, and having three tawny stripes; sides and breast hoary, the latter clothed with white hairs: abdomen piceous; hind borders of the segments hoary; second, third and fourth segments having each a large triangular dull white spot on the back, and a smaller oblique hoary spot on each side; the middle spot also appears on the fifth segment, but is very small; under-side with a broad hoary stripe on each side: legs gray; shanks very dark ferruginous; feet and tips of shanks black: wings gray, slightly tinged with brown; wing-ribs and veins piceous; poisers piceous, with pale yellow knobs. Length of the body 8 lines; of the wings 14 lines.

a. Hong-Kong. Presented by J. C. Bowring, Esq.

*TABANUS* macrops, n. s., mas. *Ferrugineus, thorace piceo unimaculato et quadrivittato, pedibus ferrugineis, tarsis fulvis, alis limpidis.*

Head occupied by the eyes above, ferruginous beneath: eyes joined together by a common coppery-green ring along the outer border; this encloses a broad yellow or golden nearly elliptical ring, which contains a spindle-shaped dark purple band; these rings are sometimes imperfect: palpi pale yellow; sucker piceous: feelers ferruginous; third joint piceous or black, except near the base, where it is gray, slightly curved, and has a very slight angle near the base: chest ferruginous, with a large subquadrate piceous spot on the back, and an interrupted piceous stripe on each side: breast paler ferruginous: abdomen ferruginous, with four brown stripes; the inner stripes are parallel along the whole length of the abdomen, and enclose an oblong darker spot on the disk of the second segment; the outer stripes diverge in receding from the tip of the abdomen, and cease at some distance from the base: legs dark ferruginous; shanks tawny, with ferruginous tips: wings colourless; veins ferruginous; brands none; poisers tawny, with yellow knobs. Length of the body 8 lines; of the wings 16 lines.

a. Egypt. Presented by Sir Gardner Wilkinson.

b. ———? Presented by Captain Lord Byron.

*TABANUS* internus, n. s., fem. *Piceus ferrugineo varius, abdomine ferrugineo fulvo subvittato, apice piceo, pedibus piceis, tibiis tarsisque ferrugineis, alis cinereis basi et margine antico fulvis.*

Head dark piceous, ferruginous about the base of the mouth and of the feelers, with a small ferruginous spot on the back, clothed beneath with yellow hairs: palpi bright pale tawny; lancets ferruginous; sucker piceous: feelers ferruginous; third joint piceous towards the tip, with an angle above at the base: chest and breast

dark piceous, their sides ferruginous: abdomen ferruginous, piceous at the tip, with a slight indication of a tawny stripe, which is most distinct on the middle of the hind border of each segment, where it is fringed with yellow hairs; hind borders of the under-side segments tawny and fringed with yellow hairs: legs clothed with pale yellow hairs; hips and thighs piceous; shanks ferruginous; feet dark ferruginous: wings gray, dull tawny towards the base and along the fore borders; veins ferruginous, piceous towards the tips; poisers tawny, tips of their knobs bright pale yellow. Length of the body 8 lines; of the wings 16 lines.

a. Silhet. From Mr. Stainforth's collection.

TABANUS Reinwardtii, Wied. Auss. Zweif. i. 130, 30.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

TABANUS diversipennis, n. s., mas. *Piceus, abdomine ferrugineo maculis nigris ferè trivittato, pedibus ferrugineis, alis fuscis, maculis nonnullis cinereis albis flavisque ornatis, apicibus marginibusque posticis cinereis.*

Body piceous: head most thickly clothed in front and beneath with pale tawny hairs: eyes black: palpi tawny; sucker black: feelers bright tawny: chest and breast most thickly clothed with pale<sup>1</sup> tawny hairs: abdomen pale ferruginous, clothed with pale tawny hairs; a triangular black spot on the fore border of each segment, and an irregular black spot on each side of some of the segments: legs ferruginous: wings brown, pale gray at the tips and along the hind borders, and having a few spots of the same colour on the disk, where there are also three or four white spots and one large triangular yellow spot; the latter joins the fore border of the wing; veins piceous; poisers pale tawny. Length of the body 8½ lines; of the wings 18 lines.

a. Chili. From Mr. Cuming's collection.

TABANUS rufithorax, n. s., fem. *Niger, capite subtus cano, thorace rufo vittis tribus pectoreque piceis, pedibus piceis, alis fuscis basi fulvis apice cinereis, maculis duabus, una magna alba alterâ parvaque flava.*

Head black, with a hoary border on each side between the eyes, hoary and clothed with hoary hairs beneath: eyes black: mouth and feelers piceous: chest red, with three indistinct piceous stripes: breast piceous: abdomen black: legs dark piceous: wings brown, tawny towards the base, gray at the tips; the disk is adorned with a large white spot, beyond which there is a smaller and more indis-



tinct yellowish spot; veins and poisers piceous. Length of the body 7 lines; of the wings 15 lines.

a. Brazil. Presented by Sir C. Stewart.

*TABANUS fasciatus*, *Fabr. Syst. Ent.* 788, 3. *Ent, Syst.* iv. 364, 8. *Syst. Anth.* 94, 6. *Wied. Dipt. Exot.* i. 73, 21. *Auss. Zweif.* i. 133, 35.

a. West Africa?

*TABANUS maculatissimus*, *Macq. Dipt. Exot.* i. 121, 3.

a. South Africa. Presented by Dr. A. Smith.

*TABANUS fuscipennis*, *Wied. Auss. Zweif.* i. 179, 102.

a. Brazil. Presented by Mrs. J. P. G. Smith.

*TABANUS dives*, n. s., fem, *Ferrugineus, capite supra rufo-fusco, anticè argenteo micans, abdominis segmentis albido fasciatis, pedibus piceis, tibiis argenteo pilosis, alis cinereo-fuscis, basi marginibusque anticis ferrugineis.*

Head above reddish brown, ferruginous and adorned with silvery lustre in front: eyes piceous: palpi and sucker piceous: feelers dull ferruginous; first and second joints clothed with black hairs; third joint long, curved, and having a long curved horn at the base: chest dark ferruginous, clothed with black short hairs, paler on each side: breast pale ferruginous: abdomen ferruginous, very thick, clothed with ferruginous hairs; hind borders of the segments whitish and adorned with golden hairs; these bands are broader beneath, and there the second segment is clothed with black hairs: legs dark piceous, thickly clothed with black hairs; hips and trochanters ferruginous; a tuft of silvery hairs at the base of each shank: wings grayish brown, ferruginous at the base and along the fore borders; veins ferruginous, piceous at the tips; poisers piceous; knobs bright pale yellow, tawny at the base. Length of the body 9 lines; of the wings 18 lines.

a. ———?

*TABANUS Megerlei*, *Wied. Auss. Zweif.* i. 132, 32.

a. ———?

*TABANUS notabilis*, n. s., fem. *Fuscus, capite flavo-fusco subtus cano, thorace cano quinquevittato, lateribus fulvis, abdomine ferrugineo, piceo univittato fulvoque bivittato, pedibus ferrugineis; alis subcinereis, basi margine antico venisque transversis fuscis.*

Head yellowish brown, shining in front at the base of the feelers, hoary and clothed with pale tawny hairs beneath: eyes piceous:

palpi pale yellow, beset with short black bristles: sucker piceous; feelers tawny; first and second joints clothed with black hairs; third bright ferruginous, curved, black towards the tip, with an angle near the base: chest brown, clothed with tawny hairs, having five slender hoary stripes; sides tawny: breast paler brown and more thickly clothed with tawny hairs: abdomen pale ferruginous, thinly clothed with tawny hairs, having an interrupted pale tawny stripe on each side, and between them a piceous stripe, which is widened here and there, and more especially towards the tip, where it occupies the whole back: legs ferruginous; thighs at the base and hips gray: wings very slightly gray, tinged with brown at the base and along the fore borders, and on each of the cross veins; veins tawny, piceous towards the tips; poisers dull tawny, tips of their knobs pale yellow. Length of the body 7 lines; of the wings 12 lines.

a. New York. Presented by the Entomological Club.

b. Georgia. From Mr. Abbot's collection.

c. ———?

*TABANUS cinereus*, n. s., fem. *Cinereo-niger, capite abdomineque canescentibus, thorace cano quadrivittato* (?), *pedibus nigris, alis cinereis, basi marginibusque anticis fuscis, venis transversis piceo nebulosis.*

<sup>1</sup>Body grayish black, dull: head somewhat hoary, clothed beneath with hoary hairs: eyes and feelers black: lancets piceous: chest with four (?) indistinct hoary stripes: abdomen rather hoary at the base and beneath: legs black: wings very dark gray, brown at the base and along the fore borders; cross-veins clouded with dark piceous colour; veins and poisers piceous. Length of the body 7 lines; of the wings 14 lines.

a. Western Australia. From Mr. Clifton's collection.

*TABANUS monogramma*, Wied. *Auss. Zweif.* i. 150, 61.

a. Brazil?

*TABANUS depressus*, n. s., fem. *Fuscus, capite nigro subtus cano thoracis lateribus ferrugineis, abdomine fulvo fasciato et utrinque maculato, pedibus cinereis, tibiis tarsisque ferrugineis, alis subcinereis, basi margineque antico subfuscis.*

Head black, with a narrow tawny border on each side between the eyes, hoary and thickly clothed with long pale yellow hairs beneath: palpi and lancets tawny, the former clothed with short black bristles; sucker piceous: feelers dark tawny; first and second joints clothed with short black hairs; third joint ferruginous, curved,

black towards the tip, with an angle at the base: chest brown, ferruginous on each side: breast thinly clothed with tawny hairs: abdomen very dark brown; hind borders of the segments tawny, and there is also a tawny spot on each side of every segment from the first to the third; the spots on the first and second segments are very small, those on the third are rather larger: legs clothed with short tawny hairs; hips and thighs dark gray; knees, shanks and feet ferruginous; shanks clothed also with short black bristles; feet beneath clothed with bright ferruginous hairs: wings slightly gray, somewhat brown at the base and along the fore borders; brands dark brown, narrow; veins piceous, tawny at the base; cross-veins clouded with brown; poisers piceous. Length of the body 6 lines; of the wings 12 lines.

a. ——— ?

*TABANUS bovinus*, Linn. *Syst. Nat.* ii. 1000. *Faun. Suec.* 1882. *Gmel. Ed. Syst. Nat.* v. 2882, 4. *Fabr. Sp. Ins.* ii. 455, 3. *Ent. Syst.* iv. 363, 4. *Syst. Antl.* 92, 1. *Herbst, Gem. Nat.* viii. t. 342, f. 1. *Geoff. Ins.* ii. 459, 1. *Schränk. Ins. Austr.* 974. *Faun. Boic.* iii. 2529. *Deg. Ins.* vi. 88, 1, t. 12, f. 6—14. *Schæff. Elem.* t. 122. *Berk. Syn. Nat. Hist.* i. 166. *Stew. Elem. Nat. Hist.* ii. 267. *Turt.* ? iii. 657. *Wood, Ill. Lin. Gen. Ins.* ii. 92, pl. 66. *Lam. Anim. sans Vertéb.* iii. 420, 1. *Panz. Faun. Germ.* ii. 20. *Latr. Gen. Crust.* iv. 283. *Cons. Gén.* 443. *Meig. Dipt.* ii. 43, 18. *Macq. Hist. Nat. Dipt.* i. 199. *Zett. Ins. Lapp.* 513, 1. *Ratz. Forst. Ins.* iii. 154. *Blanch. Hist. Nat. Ins.* iii. 589, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 179, 1. *T. tropicus* ? *Harris, Ex.* 27, pl. 7, f. 1.

a. England.

b. France.

c. Ukraine. Presented by Dr. Dowler.

*TABANUS autumnalis*, Linn. *Syst. Nat.* ii. 1000. *Faun. Suec.* 1883. *Fabr. Sp. Ins.* ii. 456, 5. *Ent. Syst.* iv. 364, 7. *Syst. Antl.* 94, 5. *Gmel. Ed. Syst. Nat.* v. 2882, 5. *Geoff. Ins.* ii. 460, 2. *Schränk. Faun. Boic.* iii. 2530. *Stew. Elem. Nat. Hist.* ii. 267. *Turt.* iii. 657. *Lam. Anim. sans Vertéb.* iii. 420, 3. *Fall. Dipt. Succ.* 6, 6. *Meig. Dipt.* ii. 39, 12. *Macq. Hist. Nat. Dipt.* i. 204, 25, pl. 5, f. 3. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 181, 3.

a. England.

b. France.

**TABANUS græcus**, *Fabr. Ent. Syst.* iv. 368, 29. *Syst. Antl.* 100, 34.  
*Meig. Dipt.* ii. 53, 30. *Macq. Hist. Nat. Dipt.* i. 202, 20.  
*Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 183, 10.

a. France?

**TABANUS bromius**, *Linn. Syst. Nat.* ii. 1001. *Faun. Suec.* 1885.  
*Fabr. Sp. Ins.* ii. 457, 14. *Ent. Syst.* 366, 17. *Syst. Antl.*  
 97, 18. *Gmel. Ed. Syst. Nat.* v. 2884, 12. *Herbst, Gem. Nat.*  
 viii. 112. *Fall. Dipt. Suec.* 7, 7. *Meig. Dipt.* ii. 52, 29.  
*Macq. Hist. Nat. Dipt.* i. 205, 27. *Zett. Ins. Lapp.* 516, 8.  
*Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, i. 182, 6. *T. macu-*  
*latus*, *Deg. Ins.* vi. 89, 3. *T. autumnalis*, *Harris, Ex.* 28, pl. 7,  
 f. 4.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**TABANUS plebeius**, *Fall. Dipt. Suec.* t. 8, 9. *Meig. Dipt.* ii. 62.  
*Macq. Hist. Nat. Dipt.* i. 203, 21. *Aln. Faun. Eur. Forts.*  
 14, 23. *Zeller, Isis*, 1842, 11, 823. *Zett. Dipt. Scand.* i. 121,  
 24. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 186, 18.

a. France?

**TABANUS tropicus**, *Linn. Syst. Nat.* ii. 1001. *Faun. Suec.* 1886,  
*Gmel. Ed. Syst. Nat.* v. 2884, 14. *Fabr. Sp. Ins.* ii. 458, 20,  
*Ent. Syst.* iv. 368, 28. *Syst. Antl.* 100, 32. *Deg. Ins.* vi. 88,  
 2, t. 12, f. 15—22. *Herbst, Gem. Nat.* viii. 113, t. 342, f. 4.  
*Schell. Mouch.* t. 27, f. 2. *Schæf. Icon.* t. 131, f. 4—6.  
*Schrank. Faun. Boic.* iii. 2533. *Ins. Austr.* 975. *Stew. El.*  
*Nat. Hist.* ii. 267. *Turt.* iii. 659. *Panz. Faun. Germ.* xiii.  
 22. *Latr. Gen. Crust.* iv. 283. *Fall. Dipt. Suec.* 5, 3. *Meig.*  
*Dipt.* ii. 57, 34. *Macq. Hist. Nat. Dipt.* i. 202, 19. *Zett.*  
*Ins. Lapp.* 514, 4. *Dipt. Scand.* i. 111, 10. *Zeller, Isis*, 1842,  
 11, 822. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 185, 16.

a. England.

b. France.

c. Marseilles, South of France.

**TABANUS solstitialis**, *Meig. Dipt.* ii. 56, 33. *Gim. Bull. Soc. Imp.*  
*Nat. Mosc.* 1847, 1, 185, 15.

a. England.

b. France.

**TABANUS lateralis**, *Megerle, Meig. Dipt.* ii. 58, 35. *Gim. Bull. Soc.*  
*Imp. Nat. Mosc.* 1847, 1, 182, 8.

a. France.

**TABANUS luridus**, *Fall. Dipt. Suec.* 5, 4. *Meig. Dipt.* ii. 55, 32.  
*Macq. Hist. Nat. Dipt.* i. 202, 18. *Zett. Dipt. Scand.* i. 112,  
 11. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 184, 14.

a. England.

b. France.

**TABANUS austriacus**, *Fabr. Syst. Antl.* 96, 17. *T. micans*, *Meig. Dipt.* ii. 34, 4, *pl.* 13, *f.* 20. *Macq. Hist. Nat. Dipt.* i. 205,  
 27. *T. niger*, *Don. Nat. Hist. Brit. Ins.* xvi. 47, 564.

a. England.

b. France.

**TABANUS signatus**, *Wied. Meig. Dipt.* ii. 34, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 180, 2.

a. France?

**TABANUS morio**, *Fabr. Ent. Syst.* iv. 363, 6. *Syst. Antl.* 94, 4.  
*Geoff. Ins.* ii. 461, 4. *Latr. Gen. Crust.* iv. 283. *Meig. Klass. Zweif.* i. 167, 4. *Lam. Anim. sans Verteb.* iii. 420, 2.  
*Macq. Hist. Nat. Dipt.* i. 198, 5. *T. nigrita*, *Fabr. Ent. Syst.*  
 iv. 367, 21. *Syst. Antl.* 98, 23. *Meig. Klass. Zweif.* i. 172, d.  
*T. ater*, *Meig. Dipt.* ii. 32, 1.

a. France.

**TABANUS rusticus**, *Linn. Syst. Nat.* ii. 1000, 11. *Fabr. Sp. Ins.* ii. 458, 17. *Ent. Syst.* iv. 367, 23. *Syst. Antl.* 99, 26. *Gmel. Ed. Syst. Nat.* v. 2883, 11. *Schrank. Ins. Austr.* 976. *Faun. Boic.* iii. 2532. *Turt.* iii. 659. *Panz. Faun. Germ.* xiii. 21. *Fall. Dipt. Suec.* 8, 8. *Meig. Dipt.* ii. 60, 39. *Macq. Hist. Nat. Dipt.* i. 207, 31. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 186, 19.

a. England.

b. France.

**TABANUS fulvus**, *Meig. Dipt.* ii. 61, 40. *Macq. Hist. Nat. Dipt.* i. 201, 14. *Zett. Dipt. Scand.* i. 120, 22. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 186, 17. *T. alpinus*, *Schrank. Faun. Boic.* iii. 2534. *Curt. Brit. Ent.* ii. *pl.* 78. *T. sanguisorba*, *Harris, Ex.* 28, *pl.* 7, *f.* 3. *T. rusticus*? var.  $\beta$ . *Fall. Dipt. Suec.* 88. *Panz. Faun. Germ.* 13, 21.

a. ———?

b. Ukraine. Presented by Dr. Dowler.

**TABANUS ochroleucus**, *Meig. Dipt.* ii. 62, 41.

a. ———?

**TABANUS inconspicuus**, n. s., *fem.* *Canus; capite thoracisque vittis quinque flavo-albidis, abdomine piceo subtus marginibusque fulvis, pedibus canis, tibiis fulvis, tarsis piceis, alis limpidis.*

Body hoary: head yellowish white, thickly clothed beneath with white hairs; a narrow piceous spot between the eyes, which are also piceous: feelers ferruginous: mouth tawny; sucker black: chest with five indistinct yellowish white stripes: abdomen piceous above, tawny beneath, covered with a hoary bloom, and clothed with pale yellow hairs, especially on the tawny hind borders of the segments: legs tawny; hips and thighs hoary; fore feet and tips of four hinder feet piceous: wings colourless; wing-ribs and veins tawny, the latter piceous towards the tips; poisers tawny. Length of the body 7 lines; of the wings 12 lines.

a. ——— ?

**TABANUS decisus**, n. s., *fem.* *Canus, capite lateribusque fulvis, abdomine pedibusque ferrugineis, tarsis piceis, alis limpidis.*

Body hoary: head pale tawny: eyes black, with a small black spot between them: feelers ferruginous, with black tips: mouth tawny, piceous towards the tip: chest and breast with a yellow tinge; sides yellow: abdomen and legs pale ferruginous; feet piceous: wings colourless, ferruginous along the fore borders for more than two-thirds of their length; wing-ribs ferruginous; veins piceous, ferruginous towards the base of the wing; poisers yellow. Length of the body 5 lines; of the wings 10 lines.

a. Ukraine. Presented by Dr. Dowler.

**TABANUS fulvescens**, n. s., *mas.* *Fuscus, capite flavo-albido, thorace fusco, pectore cano, abdomine fulvo, fusco nonnunquam vittato, pedibus flavis, alis limpidis.*

Head yellowish white, clothed beneath with white hairs: feelers and palpi yellow: eyes red: chest pale brown, clothed with tawny hairs: breast hoary, clothed with white hairs: abdomen tawny, slightly clothed with tawny hairs, and having a broad grayish brown stripe, which appears only at the base on the under-side: legs yellow: wings colourless; wing-ribs and veins tawny, the latter piceous towards the tips; poisers yellow. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Massachusetts. From Prof. Sheppard's collection.

b. ——— ?

Var. Abdomen not striped.

**TABANUS borealis**, *Fabr. Sp. Ins.* ii. 459, 21. *Ent. Syst.* iv. 369, 30. *Syst. Antl.* 101, 37. *Fall. Dipt. Suec.* 6, 5. *Meig. Dipt.* ii. 37, 10. *Zeller, Isis*, 1842, 11, 821, 4. *Zett. Ins. Lapp.* 515, 5. *Dipt. Scand.* i. 113, 13. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 183, 11.

a. Alten, Finmark. Presented by the Entomological Club.

**TABANUS vicinus**, *Macq. Dipt. Exot.* i. 143, 44. Allied to *T. zonalis*, *Kirby, North-Amer. Zool.* iv. 314, 441, 2.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**TABANUS inscitus**, n. s., fem. *Cinereo-fuscus, thorace cano bivittato, abdomine nigro, segmentis fulvo fasciatis et bimaculatis, pedibus piceis, tibiis basi ferrugineis, tarsis nigris, alis cinereis basi marginibusque anticis fuscis, venis transversis fusco nebulosis.*

Head wanting: chest and breast dark grayish brown; chest clothed with black hairs and having two hoary stripes; breast more thickly clothed with tawny hairs: abdomen black, clothed with a mixture of black and tawny hairs; hind borders of the segments very pale tawny; a dull pale tawny spot on each side of every segment; these spots are large at the base of the abdomen, but become smaller, and finally disappear before its tip: legs dark piceous; knees tawny; shanks dark ferruginous towards the base; feet black; wings gray, brown along the fore border and towards the base; cross-veins clouded with brown; veins piceous; poisers pale tawny, with piceous knobs. Length of the body 5 lines; of the wings 10 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

**TABANUS frontalis**, n. s., fem. *Fuscus, capite fulvo subtus cano, thorace vittis quinque pallidis, humeris fulvis, pectore cano, abdominis segmentis fulvo utrinque maculatis, pedibus cinereis, tibiis fulvis, tarsis ferrugineis, alis subcinereis.*

Head tawny, with three spots in a row between the eyes, where also the shining brown colour appears, hoary and thickly clothed with long yellowish white hairs beneath: eyes dark blue or purple, with five red and green bands: palpi pale yellow, clothed with short black hairs; sucker piceous: feelers ferruginous; third joint curved, black except at the base, where it forms a slight obtuse angle: chest brown, thinly clothed with black hairs, and having five indistinct paler stripes; shoulders tawny: breast hoary, thickly clothed with

white hairs: abdomen brown, with a tawny spot on each side of every segment; these spots are smaller and paler towards the tip, and there is also on the back a slight stripe formed of a few tawny hairs; hind borders of the segments dark (?) tawny; first, second and third segments beneath tawny on each side: legs ferruginous; hips and thighs gray; shanks tawny, with ferruginous tips; fore feet and tips of the other feet piceous: wings very slightly gray; veins and brands ferruginous, the latter very narrow; poisers tawny, their knobs pale brown with pale tawny tips. Length of the body 6 lines; of the wings 12 lines.

Allied to *T. affinis*, Kirby, *North-Amer. Zool.* iv. 313, 1, 440.

a. Nova Scotia. From Lieut. Redman's collection.

*TABANUS intermedius*, n. s., mas. *Cinereus, capite flavo-albo, pectore cano, abdomine cinereo nigro, fulvo bivittato, subtus cano, pedibus fulvis, protarsis nigris, alis limpidis.* Fem.—*Abdomine fulvo basi cano.*

Head yellowish white, clothed beneath with white hairs, a little broader than the chest: eyes red: palpi tawny: sucker piceous: feelers bright tawny; third joint with an angle at the base: chest gray, thickly clothed with brown hairs: breast hoary, clothed with white hairs: abdomen grayish black, slightly clothed with black hairs towards the base; hind borders of the segments clothed with yellow hairs; a broad tawny stripe along each side of the first, second and third segments; under-side hoary: legs tawny; base of thighs black; tips of feet piceous; feet and tips of shanks of fore legs black: wings colourless; veins and poisers tawny, the former piceous towards the tips of the wings. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

Fem.—Crown of the head hoary: abdomen tawny, hoary at the base.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*TABANUS imitans*, n. s., mas. et fem. *Fuscus, capite fulvo, pectore cano, abdominis segmentis fulvo fasciatis, pedibus nigris, tibiis basi subtusque fulvis, alis limpidis.* Fem.—*Pedibus fulvis, femoribus posterioribus tarsisque piceis.*

Head pale tawny, thickly clothed beneath with white hairs: eyes tawny, red in front: palpi pale yellow: sucker ferruginous: feelers tawny, beset with a few black hairs towards the base; third joint ferruginous, very slightly curved, forming a scarcely perceptible angle at the base: chest pale brown, clothed with tawny hairs:



breast hoary, more thickly clothed with white hairs: abdomen dark brown, clothed with yellow hairs, especially along the hind borders of the segments, which are tawny: legs black: trochanters ferruginous; knees yellow; shanks tawny beneath and at the base: wings colourless; veins tawny, piceous towards the tips; poisers tawny, their knobs brown at the base. *Fem.*—Legs tawny; thighs at the base and hips black; four hinder thighs piceous till near the tips; feet (except the base) and tips of shanks piceous; fore feet and tips of fore shanks black: poisers tawny, with ferruginous knobs. Length of the body 5 lines; of the wings 9 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*TABANUS gracilis*, *Wied. Auss. Zweif.* i. 156, 71.

a. Nova Scotia. From Lieut. Redman's collection.

b. Nova Scotia.

*TABANUS marginalis*, *Fabr. Syst. Antl.* 99, 31. *Wied. Dipt. Exot.* i. 80, 34. *Auss. Zweif.* i. 166, 84.

a. Nova Scotia. From Lieut. Redman's collection.

*TABANUS carbonarius*, *Meig. Dipt.* i. 33, 2.

a. Tunis. From Mr. Fraser's collection.

b. France?

*TABANUS lugubris*, *Macq. Dipt. Exot.* i. 145, 48.

a. North America?

*TABANUS transiens*, n. s., mas. *Piceus, capite abdomineque nigris, pedibus piceis, alis ferrugineis,*

Allied to *T. morio* and to *T. carbonarius*. Head black, clothed behind with tawny hairs and beneath with brown hairs: eyes, palpi and sucker black: feelers dark piceous; first and second joints clothed with black hairs; third joint long, curved, beset at the tip with a few short black bristles, ferruginous towards the base, where it has a horn of the same colour: chest and breast dark piceous, clothed with tawny hairs: abdomen black, adorned (especially at the tip and on each side of the base) with whitish hairs: legs very dark piceous, clothed with black hairs: wings ferruginous, especially at the base and along the fore borders; veins ferruginous; brands none; poisers piceous. Length of the body 7 lines; of the wings 14 lines.

a. ———?

*TABANUS trispilus*, *Wied. Auss. Zweif.* i. 62.

a. Georgia. From Mr. Abbot's collection.

**TABANUS leucomelas**, n. s., fem. *Niger, subtus albo hirtus, abdominis lateribus maculis ferrugineis, pedibus nigris, tibiis fulvis, tarsis ferrugineis, alis limpidis.*

Head black, with a few shining piceous intervals between the eyes, clothed behind with black hairs, and more thickly beneath with white hairs: palpi tawny; sucker piceous: feelers red; first and second joints clothed with black hairs; third joint black, red at the base, where it is widened and forms an angle: chest and breast black, the former clothed with tawny hairs, the latter more thickly with white hairs: abdomen black; a large ferruginous spot on each side of the segments from the first to the third; these segments beneath are more generally ferruginous: legs black; hips and thighs clothed with white hairs; shanks tawny, darker towards the tips, clothed with black and white hairs; feet ferruginous, clothed with ferruginous hairs; their tips and the fore feet piceous: wings colourless; veins tawny, piceous towards the tips; brands yellowish brown, small and slender; poisers piceous, with ferruginous knobs. Length of the body 6 lines; of the wings 12 lines.

a. Georgia. From Mr. Abbot's collection.

**TABANUS patulus**, n. s., fem. *Fuscus, capite fulvo, subtus albo, abdomine subtus cano, pedibus ferrugineis, femoribus cinereis, alis cinereis basi marginibusque anticis fuscis.*

Head dull pale tawny, white and thickly clothed with white hairs beneath; front with a dull brown oblong spot; behind this there is a small shining brown spot, and beyond the latter a larger black shining spot: eyes cupreous: palpi yellow, clothed with pale yellow hairs; sucker piceous: feelers black; first and second joints clothed with black hairs; third joint curved, red at the base, where it is widened and forms an acute angle or a short horn: chest brown, clothed with tawny hairs: breast paler, more thickly clothed with white hairs: abdomen dark brown above, hoary beneath; hind borders of the segments clothed with pale tawny hairs: legs ferruginous; thighs gray: wings gray, brown at the base and along the fore borders; veins piceous, clouded with brown except at the tips; poisers ferruginous, knobs almost brown at the base. Length of the body 6 lines; of the wings 12 lines.

a. Georgia. From Mr. Abbot's collection.

**TABANUS Sarpa**, White, *Zool. Voy. Erebus and Terror.*

b. New Zealand. From Mr. Pelerin's collection.

**TABANUS Oplus**, White, *Zool. Voy. Erebus and Terror.*

a. New Zealand. Presented by Dr. A. Sinclair.

**TABANUS priscus**, n. s., fem. *Canus, capite fulvo subtus albo, thorace fusco quadrivittato, lateribus ferrugineis, abdomine fusco, fulvo fasciato et trivittato, pedibus cinereis, tibiis fulvis, tarsis piceis, alis subcinereis.*

Head pale tawny above, with a narrow shining brown interval between the eyes, white and thickly clothed with white hairs beneath; palpi white, beset with short black hairs; lancets ferruginous; sucker dark tawny; first and second joints of the feelers tawny, beset with short black hairs: chest hoary, with four broad brown stripes, ferruginous on each side: breast hoary, clothed with white hairs: abdomen brown, with three very pale tawny stripes; the side stripes are interrupted and less distinct than the middle stripe; sides and hind borders of the segments tawny: legs gray, clothed with short tawny hairs; shanks tawny; feet and tips of shanks piceous: wings slightly gray, nearly colourless on the disks of some areolets; veins piceous, tawny towards the base; brands brown, very narrow; poisers tawny, with bright pale yellow knobs. Length of the body 8 lines; of the wings 16 lines.

a. ——— ?

**TABANUS albilinea**, n. s., fem. *Fuscus, capite pectore thoracisque vittis tribus fulvis, abdomine ferrugineo albo univittato fuscoque bivittato, antennis pedibusque fulvis, alis fulvo subcinereis.*

Head tawny, with a hoary bloom above, white and clothed with white hairs beneath: mouth black: feelers and palpi tawny: eyes brassy: chest brown with a hoary bloom, and having three indistinct tawny stripes; sides and breast tawny, with a hoary bloom, and thinly clothed with white hairs: abdomen ferruginous, tawny with a hoary bloom on each side and beneath, and having on the back a brown stripe inlaid with white: legs tawny with a hoary bloom; feet and tips of shanks ferruginous; fore feet piceous: wings slightly gray, tawny at the base and on the fore borders and along the borders of the veins; wing-ribs, veins and poisers tawny. Length of the body  $8\frac{1}{2}$  lines; of the wings  $15\frac{1}{2}$  lines.

a. ——— ?

**TABANUS apicalis**, n. s., mas. *Fuscus, capite pectore scutello thoracisque vittis quinque canis abdomine albo utrinque trimaculato, apice nigro, segmentorum marginibus posticis albidis, antennis tarsisque nigris femoribus canis, tibiis fulvis, alis fusco-cinereis.*

Head hoary: feelers and mouth black; palpi yellow: eyes brassy: chest brown, with a hoary bloom, and having five hoary stripes; scutcheon also hoary: breast hoary, and clothed with white hairs: abdomen reddish brown, black at the tip; hind borders of segments whitish; third, fourth, and fifth segments with a

large conical white spot on each side : legs hoary ; shanks tawny : feet and tips of shanks black : wings gray, brownish at the base and along the fore borders ; wing-ribs and veins piceous ; poisers tawny. Length of the body 7 lines ; of the wings 13 lines.

a. ——— ?

*TABANUS innotabilis*, n. s., fem. *Cinereo-piceus, capite fulvo, abdomine ferrugineo maculis fulvis trivittato, apice piceo, pedibus ferrugineis, tibiis fulvis, tarsis piceis, alis cinereis.*

Head tawny : eyes, mouth, and feelers piceous ; third joint of the feelers long, much curved, with a very short obtuse horn at the base : chest and breast grayish piceous : abdomen dark ferruginous, which colour passes into piceous towards the tip ; each segment with three triangular pale tawny spots on its hind border : legs tawny : hips and thighs very dark ferruginous, clothed with white hairs ; feet piceous : wings gray ; veins black, dark ferruginous towards the base ; poisers tawny, their knobs brighter and paler. Length of the body 7 lines ; of the wings 14 lines.

a. New Holland. Presented by the Haslar Hospital.

*TABANUS primitivus*, n. s., fem. *Ferrugineus, capite fulvo subtus albo, thorace fusco trivittato, pectore albo, abdomine flavo fasciato et fulvo trivittato, pedibus ferrugineis, tibiis fulvis, tarsis piceis, alis cinereis.*

Head tawny, with a shining brown dart-shaped spot in front between the eyes, brilliant white and clothed with long white hairs beneath : palpi tawny ; lancets ferruginous ; sucker piceous : feelers tawny ; first and second joints beset with short black bristles ; third black, long, curved, with an angle or short horn near the base : chest pale ferruginous, with three brown stripes ; the side stripes are interrupted : breast white, clothed with long white hairs : abdomen ferruginous, with three indistinct tawny stripes ; hind borders of the segments pale yellow, thinly fringed with pale yellow hairs : legs ferruginous ; hips and thighs, especially the former, tinged with white lustre ; shanks tawny with dark tips ; feet piceous : wings gray ; veins piceous, tawny at the base and along the fore borders ; brands yellowish brown, long and narrow ; poisers ferruginous. Length of the body 6 lines ; of the wings 12 lines.

a. South America. From Mr. Warwick's collection.

*TABANUS remotus*, n. s., fem. *Niger, capite ferrugineo, abdomine rufo fasciato basique utrinque maculato, pedibus rufis, femoribus nigris, alis subcinereis.*

Head ferruginous : eyes black : palpi yellow : sucker black : feelers ferruginous with black tips : chest, breast, and abdomen black : breast and sides of the chest clothed with pale yellow hairs ;

hind borders of the segments of the abdomen red, and a large spot of the same colour on each side of its base: legs red: thighs and tips of the feet black: wings slightly gray; veins piceous, tawny at the base and along the fore border; poisers ferruginous. Length of the body 6 lines; of the wings 12 lines.

a. New Holland. Presented by the Haslar Hospital.

*TABANUS antecessens*, n. s., mas. *Fuscus, capite subtus albo, thorace vittis quinque pallidioribus, abdomine rufo-fusco, segmentis supra fulvo subtus albo fasciatis, pedibus piceis, alis subcinereis.*

Head hoary in front, clothed with long white hairs: eyes piceous: palpi dull tawny: sucker piceous: feelers piceous, ferruginous at the base: chest and breast brown; chest with five very indistinct paler stripes; breast thickly clothed with long white hairs: abdomen reddish brown; hind borders of the segments dull pale tawny; under-side dull red; hind borders of the segments white; legs piceous: wings light gray; veins brown; poisers piceous (?) pale tawny with yellow. Length of the body 5 lines; of the wings 10 lines.

a. New Holland. Presented by J. Hunter, Esq.

*TABANUS Regis Georgii*, Macq. *Dipt. Erot.* i. 132.

a. Swan River. Presented by Sir J. Richardson.

*TABANUS sequens*, n. s., fem. *Capite fulvo subtus albo, thorace cinereo vittâ utrinque obscuriori, humeris fulvis, pectore cano, abdomine ferrugineo basi apiceque piceo, segmentis albo fasciatis et utrinque vittatis, pedibus nigris, tibiis fulvis, alis subcinereis.*

Head dull tawny above, brown and shining in front between the eyes, white and clothed with white hairs beneath: eyes piceous: palpi very pale tawny; sucker piceous; feelers tawny; first and second joints clothed with black bristles; third joint wanting: chest gray, with a very broad darker stripe on each side; shoulders tawny; breast hoary; stigmata pale yellow: abdomen ferruginous, slightly piceous at the base and towards the tip, with a white stripe on each side; hind borders of the segments also white; legs black, clothed with white hairs; knees and shanks tawny; tips of fore shanks piceous: wings slightly gray; veins piceous; ferruginous towards the base; brands brown, narrow; poisers ferruginous; tips of their knobs nearly white. Length of the body 5—5½ lines; of the wings 10—11 lines.

Var.  $\beta$ . A broad brown band across the first, and another across the second segment of the abdomen.

a. Port Essington. From Mr. Gould's collection.

**TABANUS imperfectus**, n. s., fem. *Cinereo-niger, capite piceo subtus fulvo, thoracis lateribus pectoreque ferrugineis, abdomine piceo fasciis ferrugineis, pedibus ferrugineis, femoribus piceis, alis subcinereis.*

Head piceous between the eyes (?), tawny beneath: eyes piceous, with a coppery tinge: palpi and lancets pale tawny: feelers tawny: chest grayish black; its sides and the breast ferruginous: abdomen piceous; hind borders of the segments ferruginous: legs ferruginous; thighs piceous with ferruginous tips: wings slightly gray; veins piceous, ferruginous at the base and along the fore borders; poisers ferruginous. Length of the body 5 lines; of the wings 10 lines.

a. New Holland.

**TABANUS concolor**, n. s., fem. *Cinereo-niger, subtus canus, pedibus nigris, tibiis piceis, alis fusco-cinereis.*

Body grayish black, somewhat hoary beneath when the head and the breast are clothed with hoary hairs: eyes piceous with a brassy tinge: palpi tawny: sucker and feelers black: legs black; shanks piceous: wings gray with a brown tinge on the disk; veins and brands dark piceous; poisers tawny with pale yellow knobs. Length of the body  $5\frac{1}{2}$  lines; of the wings 11 lines.

a. New Holland. Presented by J. Hunter, Esq.

**TABANUS postponens**, n. s., fem. *Fulvus, capite pectoreque flavis, thorace fusco quinquerittato, abdominis segmentis fusco fuscatis, pedibus fulvis, tarsis fuscis, alis subcinereis.*

Head yellow, thickly clothed beneath with pale yellow hairs: eyes dark piceous: mouth yellow; sucker mostly black towards the tip: feelers and the mouth about their base tawny: chest dull tawny, with five brown stripes: breast pale yellow, thickly clothed with pale yellow hairs: abdomen tawny, paler beneath, having on the fore border of each segment a brown band, which is broadest on each side: legs tawny; feet brown: wings slightly gray; veins brown; poisers pale tawny. Length of the body 5 lines; of the wings 10 lines.

a. New Holland. Presented by the Haslar Hospital.

b. New Holland. Presented by the Earl of Derby.

**TABANUS vetustus**, n. s., fem. *Albus, abdomine flavo-albo fasciis fulvis, femoribus piceis, alis limpidis.*

Body white and clothed with white hairs, especially on the under-side of the head and of the fore chest: eyes black: palpi pale

tawny; sucker black: feelers ferruginous, with black tips; third joint with an angle near the base: abdomen yellowish white, especially on the under-side; hind borders of the segments pale tawny: legs tawny: hips, thighs and tips of feet piceous: wings colourless; veins tawny, piceous along the fore borders; poisers very pale yellow. Length of the body 6—6½ lines; of the wings 11—12 lines.

a. Swan River. Presented by Sir J. Richardson.

*TABANUS cæsius*, n. s., fem. *Glaucus, subtus albidus, capite albo, abdominis segmentorum marginibus posticis fulvescentibus, pedibus fulvis, alis albis.*

Body hoary with a bluish tint, almost white beneath: head white: eyes brassy: mouth black; palpi yellowish white: feelers tawny: hind borders of the abdominal segments pale tawny: legs tawny; hips and thighs with a white bloom: wings white; wing-ribs and veins tawny; poisers yellow. Length of the body 6 lines; of the wings 12 lines.

a. ——— ? From Mr. Children's collection.

*TABANUS dorsiger*, Wied. *Dipt. Exot.* i. 83, 38. *Auss. Zweif.* i. 172, 92.

a. Monte Video. Presented by C. Darwin, Esq.

*TABANUS rufiventris*, Macq. *Dipt. Exot.* i. 141, 39.

a. Jamaica. From Mr. Gosse's collection.

*TABANUS secundus*, n. s., mas. *Piceus, thoracis lateribus ferrugineis, pectore cano, abdomine fulvo rittis tribus pallidioribus, apice piceo, antennis pedibusque ferrugineis, propedibus nigris, alis subcinereis.*

Head hoary and clothed with white hairs beneath: eyes bronze colour: feelers ferruginous, piceous at the base, no horn on the third joint: mouth black: palpi tawny: chest piceous, with a slight gray bloom; sides ferruginous: breast hoary: abdomen tawny, paler towards the base, piceous at the tip, having three stripes which are whitish at the base, pale tawny towards the tip; the middle stripe is more distinct than those on the sides; a piceous stripe on the under-side extends from the base to the hind border of the second segment: legs ferruginous; feet piceous; fore legs black, their shanks ferruginous towards the base: wings slightly gray, tinged with brown on the fore borders; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body 5 lines; of the wings 8 lines.

a. ——— ?

**TABANUS nepos**, n. s., fem. *Ferrugineus, thorace fusco, abdomine fuscis maculisque fulvis, apice piceo, antennis nigris, pedibus ferrugineis, alis subcinereis.*

Head dark ferruginous above, paler beneath, where it is clothed with white hairs: eyes piceous: feelers black, ferruginous at the base, no horn on the third joint: mouth black; palpi tawny: chest dark brown with a grayish tinge, having four rather indistinct hoary stripes; sides and breast ferruginous: abdomen ferruginous, piceous at the tip; hind borders of the segments tawny; a row of triangular spots of the same colour on the back: legs ferruginous; feet darker; hips and thighs with a hoary bloom: wings slightly gray; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body 8 lines; of the wings 13 lines.

*a* ———?

**TABANUS scitus**, n. s., fem. *Fuscus, capite fulvo subtus albo, thoracis lateribus fulvis, pectore cano, abdomine maculis flavis trivittato, basi fulvo, subtus flavo-albo fulcroque univittato, pedibus ferrugineis, tarsis piceis, alis limpidis.*

Head above pale tawny; this colour overspreads a brown shining covering, which partially appears; under-side white and clothed with white hairs: palpi pale yellow; sucker piceous: feelers red; first joint tawny and clothed with paler hairs; third joint curved, black towards the tip, with a long curved horn at the base: chest brown, tawny on each side: breast hoary, thinly clothed with white hairs: abdomen brown, tawny at the base, adorned along each side with a row of whitish yellow spots, which are largest and palest at the base of the abdomen, thence they grow smaller and darker till they disappear in the brown colour; there is also a stripe of small pale yellow triangular spots on the back of the abdomen; under-side yellowish white, especially along the hind borders of the segments; a broad tawny stripe along the middle: legs ferruginous; feet, except the base and tips of the shanks piceous: wings colourless: veins ferruginous; poisers tawny, with ferruginous knobs. Length of the body 6 lines; of the wings 12 lines.

*a*. Georgia. From Mr. Abbot's collection.

**TABANUS fulvofrater**, n. s., fem. *Fulvus, thoracis disco fusco, pectore cano, abdomine fusco utrinque bimaculato, pedibus fulvis, femoribus piceis, alis subcinereis, basi marginibusque anticis fulvis.*

Head tawny, which colour mostly conceals the shining brown or black hue beneath: under-side paler and thickly clothed with yellow hairs: eyes piceous: palpi pale tawny; sucker piceous: feelers tawny; third joint wanting: chest brown, clothed with tawny



hairs, tawny on each side: breast somewhat hoary, more thickly clothed with paler tawny hairs: abdomen tawny, clothed with tawny hairs, having a brown spot on each side of the two last segments: legs tawny; hips, thighs and tips of feet piceous: wings slightly gray, tawny towards the base (?) and along the fore borders; veins tawny, piceous towards the tips; poisers bright tawny. Length of the body 7 lines; of the wings 12 lines.

*a.* Illinois. Presented by E. Newman, Esq.

*TABANUS bicolor*, Wied. *Dipt. Exot.* i. 96, 58. *Auss. Zweif.* i. 188, 115.

*a.* North America.

*TABANUS lincola*, Fabr. *Ent. Syst.* iv. 369, 33. *Syst. Antl.* 102, 41. *Coqueb. Ill. Icon. Ins.* 112, t. 25, f. 6. Wied. *Dipt. Exot.* i. 81, 36. *Auss. Zweif.* i. 170, 89. Harris, *Ins. New Engl.* 406.

*a.* Florida. Presented by E. Doubleday, Esq.

*TABANUS simulans*, n. s., fem. *Canus, capite fulvo subtus albo, humeris fulvis, abdomine fusco, cano trivittato fulvoque bimaculato, subtus albido-fulvo, pedibus canis, tibiis fulvis, tarsis ferrugineis, protarsis nigris, alis limpidis.*

Nearly allied to *T. lineola*. Head pale tawny on the crown, yellowish white in front, clothed with white hairs beneath: eyes piceous: palpi yellowish white; sucker black; feelers tawny; first and second joints beset with short black hairs; first joint yellow; third joint forming near the base an angle which bears a tuft of black hairs: chest and breast hoary; shoulders tawny: abdomen brown, with three broad hoary stripes, and having a very large tawny spot on each side at the base; under-side whitish tawny, with a still larger tawny spot on each side: hips and thighs hoary; trochanters ferruginous; shanks and knees tawny, tips of the former and the feet ferruginous; fore shanks dark ferruginous, tawny at the base; fore feet black: wings colourless; veins tawny; poisers tawny, with yellow knobs. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

*a.* Nova Scotia. From Lieut. Redman's collection.

*TABANUS basalis*, n. s., fem. *Cinereus, capite fusco subtus ferrugineo, humeris ferrugineis, abdomine ferrugineo maculis nigris univittato, pedibus ferrugineis, femoribus basi piceis, alis subcinereis.*

Head brown, ferruginous in front and beneath, where it has a white bloom and is clothed with long white hairs: eyes piceous: mouth tawny; sucker black: feelers ferruginous; third joint with no angle: chest dark gray; shoulders ferruginous: abdomen ferru-

ginous, with a black triangular spot at the base of each segment and a single black spot at the base of the under-side: legs ferruginous; hips dark gray; thighs piceous at the base: wings with a very slight gray tinge; veins tawny; poisers pale tawny, with darker knobs. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. New Holland. Presented by the Earl of Derby.

*TABANUS nigrimanus*, n. s., fem. *Cinereus, capite fulvo, thorace cano trivittato, pectore cano, abdomine ferrugineo, pedibus fulvis, femoribus anticis tarsisque piceis, tarsis anticis nigris, alis cinereis.*

Head tawny, thickly clothed beneath with white hairs: eyes green, with purple disks: palpi pale tawny, clothed with black hairs; sucker black: feelers ferruginous, with black tips; third joint widened and forming an angle near the base: chest gray, with a tawny bloom, and having slight traces of three hoary stripes: breast hoary: abdomen ferruginous, thinly clothed above with black hairs: legs tawny; hips and thighs at the base hoary; feet piceous; fore thighs dark piceous; fore shanks with piceous tips; fore feet black. wings with a very slight gray tinge; veins piceous, tawny towards the base and along the fore borders; brands tawny, long and narrow; poisers bright pale tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Port Essington. Presented by the Earl of Derby.

*TABANUS diminutus*, n. s., fem. *Ferrugineus, capite nigro subtus fulvo, thorace nigro trivittato, pectore fulvo, abdomine fulvo piceo univittato, segmentis rittis pallide fulvis, pedibus fulvis, tarsis fuscis, alis limpidis.*

Head black above, pale tawny and clothed with still paler hairs in front and beneath: eyes dark red: mouth tawny; sucker piceous: feelers ferruginous, with black tips; third joint widened at the base into a slight angle: chest dark ferruginous, with three black stripes: breast tawny, with a hoary bloom: abdomen dull tawny, with a piceous stripe, which is widened towards the tip, where it occupies the whole back; the first and the second segments have each a bright tawny narrow band, and the hind borders of all the segments are pale tawny and clothed with yellow hairs: legs tawny; feet brown, tawny at the base: wings colourless; veins piceous, tawny towards the base and along the fore borders; brands tawny; poisers tawny, with bright pale yellow knobs. Length of the body 6 lines; of the wings 12 lines.

a. Port Essington. From Mr. Gould's collection.

**TABANUS insularis**, n. s., fem. *Fulvus, abdomine ferrugineo fulvo univittato, pedibus ferrugineis, femoribus basi fusco-fulvis, alis limpidis basi marginibusque anticis fulvis.*

Head bright tawny, clothed beneath with yellow hairs: eyes red: palpi tawny; lancets ferruginous: sucker piceous: feelers tawny; third joint wanting: chest and breast dull tawny, brown when the above colour is effaced; their sides clothed with yellow hairs: abdomen very bright ferruginous, with a very broad dull tawny stripe, which is interrupted on the hind border of each segment, and does not extend beyond the base of the abdomen on the under-side: legs ferruginous, clothed with ferruginous hairs; hips and base of thighs dull dark tawny or almost brown: wings colourless, tawny at the base and along the fore borders; veins tawny, piceous towards the tips; brands dark tawny, very narrow; poisers tawny, with bright yellow knobs. Length of the body 6 lines; of the wings 12 lines.

a. Sandwich Islands. Presented by Capt. Beechey.

**TABANUS obliquemaculatus**, Macq. *Dipt. Erot.* i. 123, 4.

a. South Africa. Presented by Dr. A. Smith.

**TABANUS tæniatus**, Macq. *Hist. Nat. Dipt.* i. 207, 35.

a. South Africa. Presented by Dr. A. Smith.

**TABANUS stigma**, n. s., fem. *Fuscus, capite subtus albo, abdomine fasciis fulvis, subtus basi fulvo, antennis pedibusque fulvis, tarsis obscurioribus, alis limpidis.*

Head brown, dark tawny in front, white beneath, where it is thickly clothed with yellowish white hairs: eyes piceous: mouth and feelers tawny; sucker piceous: chest and breast dark brown, clothed with yellowish white hairs: abdomen brown: hind borders of the segments tawny and clothed with yellow hairs; under-side tawny for more than half its length from the base: legs tawny; feet darker: wings colourless; veins piceous, tawny towards the base and along the fore borders; brands large, piceous; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. South Africa. Presented by Dr. A. Smith.

**TABANUS lativitta**, n. s. *Fulvus, capite subtus albo, thorace vittato (?), pectore cano, abdomine fusco vittis duabus fasciisque ventreque fulvis, pedibus piceis fulvo et ferrugineo variis, alis cinereis, marginibus anticis subfuscis.*

Head tawny, with a shining piceous spot in front between the eyes, white and thickly clothed with long white hairs beneath: palpi

yellow, clothed with short black hairs; sucker piceous: feelers having the first and second joints tawny and beset with black hairs; third joint ferruginous, curved, black towards the tip, furnished with a few short black hairs, and having a black angle at the base: chest tawny, perhaps with some stripes, which are obliterated: breast hoary, clothed with tawny hairs: abdomen dark brown, clothed with pale tawny hairs, and having a broad tawny stripe on each side; the hind borders and the sides of the segments, and the whole of the under-side, are also tawny: legs piceous; middle shanks and tips of middle thighs tawny; fore shanks towards the base, tips of four hinder shanks, and four hinder feet, dark ferruginous; hind shanks and tips of hind thighs pale ferruginous: wings gray, somewhat brown along the fore borders; veins piceous, very slightly clouded with brown; brands yellowish brown, long and narrow; poisers ferruginous, with bright pale yellow knobs. Length of the body 5 lines; of the wings 10 lines.

a. Brazil.

*TABANUS completus*, n. s., fem. *Ferrugineus, capite nigro, thorace piceo trivittato, abdomine fulvo fasciato maculisque fulvis quadrivittato, pedibus ferrugineis tibiis tarsisque fulvis, alis subcinereis venis transversis piceo nebulosis.*

Head black, clothed beneath with white hairs: eyes green, with purple bands: palpi pale yellow; sucker black: feelers ferruginous: third joint widened into an angle near the base, whence to the tip it is black: chest and breast ferruginous, the former with three piceous stripes, the latter thinly clothed with white hairs: abdomen ferruginous, adorned with four rows of nearly triangular tawny spots, that form irregular bands and are confluent at the tip; hind borders of the segments tawny, fringed with yellow hairs: legs ferruginous: shanks and feet pale tawny, with piceous tips: wings with a very slight gray tinge; veins black; cross-veins clouded with piceous; brands tawny, piceous at the base; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Isle St. Thomas. From Mr. Gosse's collection.

*TABANUS circumdatus*, n. s., fem. *Fuscus, capite cinereo-fulvo subtus cano, thoracis rittis tribus pectoreque canis, lateribus fulvis, abdomine ferrugineo, fasciis fulvis maculisque basi et apice fuscis, pedibus ferrugineis, femoribus cinereis, alis subcinereis.*

Head dull grayish tawny, with a large oblanceolate shining piceous spot in front, beyond this there is a ferruginous tubercle on which the feelers are seated; under-side of the head hoary, clothed with long white hairs: palpi and lancets tawny, the former clothed

with short black bristles; sucker piceous: feelers ferruginous; first and second joints beset with black hairs; third black, except near the base, where it has a very slight angle: chest brown, with three indistinct hoary stripes, tawny on each side: breast hoary, clothed with long white hairs: abdomen dark ferruginous, mostly brown towards the tip, thinly clothed with tawny hairs: hind borders of the segments tawny; a large brown spot on the first, and a small one on the second segment: legs ferruginous, clothed with short black hairs; hips and thighs gray, clothed with pale tawny hairs: wings slightly gray; veins ferruginous; brands yellowish brown, very narrow; poisers tawny, their knobs piceous with ferruginous tips. Length of the body 5 lines; of the wings 10 lines.

a. ——— ?

*TABANUS argentifrons*, n. s., fem. *Fulvus, capite subtus albo, thorace fusco quadrivittato, pectore cano, abdomine flavo-albido vittato, apice ferrugineo, pedibus ferrugineis, femoribus basi fulvis, alis subcinereis fulvo subvittatis.*

Head tawny, white and clothed with long white hairs beneath: palpi tawny; lancets and sucker piceous: feelers tawny; first and second joints beset with hairs; third ferruginous, armed with a curved horn at the base: chest tawny, with four pale brown stripes; breast hoary, clothed with white hairs: abdomen tawny, clothed with short black hairs, ferruginous towards the tip; hind borders of the segments yellowish white; under-side clothed with short tawny hairs: legs ferruginous, clothed with short black hairs; hips hoary; thighs tawny at the base; fore and middle shanks clothed with silvery hairs at the base: wings with a gray tinge, slightly tawny along the veins, more so at the base, and most so on the fore borders; veins ferruginous, darker towards the tips; poisers tawny, with bright pale yellow knobs. Length of the body 6 lines; of the wings 12 lines.

a. ——— ?

*TABANUS constans*, n. s., fem. *Ferrugineus, thorace piceo quinquevittato, abdominis segmentis fulvo fasciatis, pedibus fulvis, alis cinereis.*

Head dark ferruginous, clothed beneath with bright tawny hairs: eyes piceous: mouth tawny; sucker piceous: feelers bright tawny; third joint but slightly widened into an angle: chest and breast ferruginous, the former with five piceous stripes: abdomen ferruginous; hind borders of the segments tawny and fringed with yellow hairs: legs tawny; fore hips pale tawny: wings gray: veins piceous, tawny towards the base; poisers yellow, with tawny knobs. Length of the body 3 lines; of the wings 6 lines.

a. New Holland. Presented by the Haslar Hospital.

**TABANUS vicarius**, n. s., fem. *Albido-fulvus, abdomine nigro albido fasciato fulroque trivittato, antennis ferrugineis, pedibus fulvis, femoribus subcinereis, tibiis apice tarsisque piceis, pedibus anticis nigris, alis subcinereis.*

Allied to *T. occidentalis*, Linn. Head tawny, hoary beneath: mouth black; palpi hoary: feelers ferruginous, black towards the tips; horn on the base of the third joint very small: chest whitish tawny, thinly clothed with tawny hairs: breast hoary: abdomen black, with three tawny stripes; the side stripes become ferruginous towards the base; under-side hoary, tawny towards the base; hind borders of the segments whitish: legs tawny; hips and thighs with a grayish lustre; feet and tips of shanks piceous; fore legs, excepting the base of the shanks, almost black: wings very pale gray, slightly tawny at the base and along the fore borders; wing-ribs and veins tawny, the latter piceous towards the tips; poisers pale tawny. Length of the body 5 lines; of the wings 10 lines.

a. Honduras. From Mr. Miller's collection.

b. Massachusetts. From Prof. Sheppard's collection.

c. North America. From Mr. Children's collection.

**TABANUS jucundus**, n. s., mas. *Fuscus, capite pectore ventre abdominisque segmentorum marginibus posticis albidis, thorace cano trivittato, abdominis dimidio apicali albo vittato, antennis tibiisque ferrugineis, femoribus canis, tibiis apice tarsisque piceis, alis limpidis.*

Head white, clothed beneath with white hairs, broader than the chest: mouth black: feelers ferruginous; angle at the base of the third joint very small: eyes large, banded: chest brown, with three broad hoary stripes: breast bluish white: abdomen brown; hind borders of the segments whitish; a clear white stripe proceeds from the base of the third segment nearly to the tip; under-side bluish white, and clothed with white down: hips and thighs hoary; shanks dark ferruginous; feet and tips of shanks piceous; fore feet black: wings colourless; wing-ribs and veins piceous; poisers tawny, with pale yellow knobs. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. Hong-Kong, China. Presented by J. C. Bowring, Esq.

**TABANUS parallelus**, n. s., fem. *Ferrugineus, capite flavo-fusco, subtus albo, thorace fulvo quadrivittato, pectore cano vario, abdomine apice piceo basi subtus albo, pedibus ferrugineis, alis subfuscis.*

Head dull yellowish brown above, with a shining brown spot a little above the base of the feelers, white and clothed with white

hairs beneath: eyes coppery, banded: palpi and feelers tawny; sucker piceous: chest and breast ferruginous; chest with four tawny stripes; breast hoary here and there: abdomen tawny, white at the base beneath, piceous towards the tip; hind borders of the segments rather paler: legs ferruginous; tips of the feet darker: wings with a slight tawny tinge, especially at the base and along the fore borders; veins piceous, ferruginous at the base; cross-veins clouded with brown; brands dull yellow, small and narrow, brown at the base; poisers tawny, with ferruginous knobs. Length of the body 4 lines; of the wings  $8\frac{1}{2}$  lines.

*a.* West Indies.

*TABANUS lucidulus*, n. s., mas. *Flavo-fuscus, capite abdomineque fulvis, pedibus fulvis, femoribus anticis fuscis, alis flavo-fuscis maculis quinque limpidis.*

Head tawny beneath: eyes coppery: palpi tawny; sucker piceous: feelers ferruginous; first and second joints beset with short black bristles; third joint curved, piceous with a slight angle near the base: chest and breast yellowish brown: abdomen dull tawny; hind borders of the segments pale tawny: legs tawny; fore thighs brown: wings pale yellowish brown, with about five colourless spots in the areolet: veins ferruginous; brands brown, very narrow; poisers pale tawny, with brown knobs. Length of the body  $5\frac{1}{2}$  lines; of the wings 11 lines.

*a.* Jamaica. From Mr. Gosse's collection.

*TABANUS brevior*, n. s., fem. *Fuscus, capite fulvo subtus cano, pectore cano, abdomine ferrugineo maculis utrinque apiceque fuscis, segmentis fulvo fasciatis, pedibus cinereis, tibiis fulvis, alis subcinereis.*

Head dull tawny, shining and brown, with a tawny border in front between the eyes, hoary and clothed with hoary hairs beneath: eyes piceous: palpi tawny, as long as the sucker which is piceous and rather short: feelers ferruginous; first and second joints clothed with black bristles; third joint rather large, black at the tip, with an angle near the base: chest brown, clothed with tawny hairs: breast hoary, clothed with white hairs: abdomen ferruginous, with a small brown spot on each segment; the latter segments nearly all brown; hind borders of the segments pale tawny: legs dark gray, clothed with short black hairs; shanks and base of the feet dark tawny: wings slightly gray; veins piceous, ferruginous towards the

base; brands brown, narrow; poisers tawny, their clubs mostly brown. Length of the body 3 lines; of the wings 8 lines.

a. Port Essington. From Mr. Gould's collection.

*TABANUS tritus*, Walk. *Linn. Trans.* xvii. 338, 19.

a. Cape Gregory. Presented by the Entomological Club.

*TABANUS trinitatus*, Wied. *Auss. Zwief.* i. 182, 106.

a. Brazil?

*TABANUS marginatus*, n. s., fem. *Cinereus, capite flavo-fusco, subtus cano, abdomine fusco segmentis fulvo fasciatis, pedibus cinereo-nigris, tibiis fulvis aut piceis, alis cinereis.*

Head yellowish brown, dark brown and shining in front between the eyes, hoary and clothed with hoary hairs beneath: eyes dark red: palpi tawny; sucker piceous: feelers ferruginous; third joint tawny, piceous towards the tip, with an angle near the base: chest dark gray, with a tawny tinge along each side: breast paler: abdomen dark brown; hind borders of the segments tawny and clothed with tawny hairs: legs grayish black, clothed with short black hairs; knees bright tawny; shanks dull tawny, darker towards the tips; wings gray; veins piceous, tawny towards the base; brands brown, narrow; poisers tawny with brown knobs. Length of the body 3 lines; of the wings 6 lines.

Var.  $\beta$ . Shanks piceous, very dark tawny at the base.

a. New Holland. Presented by the Haslar Hospital.

b. Port Essington. From Mr. Gould's collection.

*TABANUS erraticus*, n. s., mas. *Niger, capite subtilus piceo, pectore ferrugineo vario, abdominis segmentis ferrugineo fasciatis, pedibus nigris, alis cinereis venis nonnullis fusco nebulosis.*

Body black: head piceous beneath, and clothed with black hairs: palpi dark tawny; sucker piceous: feelers piceous; first and second joints clothed with short black bristles; third joint slightly curved, with no angle or horn: breast varied with dark ferruginous colour: abdomen clothed on each side with black hairs: hind borders of the segments ferruginous: legs black; trochanters and knees tawny: wings dark gray; veins black, clouded with brown towards the base, as are also the little cross veins; poisers tawny; knobs at the base and tips of the stalks, more or less, piceous. Length of the body 6 lines; of the wings 13 lines.

a. New Holland. Presented by the Haslar Hospital.



## DICHELACERA, Macquart.

**DICHELACERA alcicornis.** *Tabanus alcicornis?* Wied. Auss. Zweif. i. 158, 74. *Fulva, capite subtus flavo-albo, abdomine fasciis apiceque ferrugineis, pedibus flavis articulis apice fuscis, tarsis et metatibiis piceis, alis fusco limbo fulvo cinereoque vittatis, fuscoque trimaculatis.*

Head tawny, ferruginous in front between the eyes, yellowish white and clothed with yellowish white hairs beneath: eyes green and purple: palpi tawny, clothed with black hairs; lancets ferruginous: feelers tawny, not longer than the head; first and second joints beset with black bristles, second joint half the length of the first; third joint much longer than the first and second, downy, curved, black, ferruginous at the base, armed with a curved horn which is about half its length: chest pale tawny; a broad band on the chest and the scutcheon ferruginous: breast paler than the chest, with a white bloom: abdomen tawny; first segment paler; hind borders of the following and the whole of the two last segments ferruginous; under-side paler and of one colour: legs pale yellow: tips of fore thighs, of hind thighs, of fore shanks, and of middle shanks brown; feet and hind shanks piceous: wings brown on the fore border, with a tawny tinge along the middle, and very slightly gray on the hind border; a very narrow colourless stripe runs beneath the fore border, and there are three large irregular brown spots along the wing, the largest is near the tip and joins the brown of the fore border, and also touches the hind border; veins piceous, tawny towards the base; poisers yellow. Length of the body 5 lines; of the wings 11 lines.

a. Brazil.

**DICHELACERA repanda**, n. s., fem. *Ferruginea, capite subtus fulvo, thorace fulvo quadrivittato, pectore albido, pedibus ferrugineis, tibiis anterioribus fulvis, tarsis piceis, alis, subcinereis fusco trifasciatis.*

Body ferruginous: head pale tawny beneath: eyes piceous: mouth ferruginous; sucker black: feelers ferruginous, with black tips; third joint having a very long curved horn at its base: chest with four tawny stripes, its sides pale tawny: breast almost white: abdomen paler towards the tip and beneath; hind borders of the segments fringed with yellow hairs: legs ferruginous; fore shanks and middle shanks pale tawny, with ferruginous tips; feet and tips of hind shanks piceous: wings slightly gray, with three irregular brown bands, first band narrow, second broad, third still broader and occupying the tip of the wing; fore borders tawny; veins pi-

ceous, tawny towards the base and along the fore borders ; poisers ferruginous. Length of the body  $5\frac{1}{2}$  lines ; of the wings 12 lines.

a. Venezuela. From Mr. Dyson's collection.

*DICHELACERA ferrugata*. *Chrysops ferrugatus*, *Fabr. Syst. Anth.* iii.

2. *Wied. Dipt. Exot.* i. 94. 56. *Tabanus ferrugatus*, *Wied. Auss. Zweif.* i. 186, 113.

a. Carolina ?

*DICHELACERA abiens*, n. s., mas. *Fulva, thorace fasciis quatuor pallidioribus abdominis segmentis flavo-fasciatis, pedibus fulvis, alis subcinereis margine antico maculisque duabus fuscis.*

Head tawny : eyes piceous : mouth and feelers tawny ; a short sharp horn near the base of the third joint of the latter : chest tawny, with four paler tawny stripes, the outer pair confined to the hinder part of the back : breast and abdomen tawny ; hind borders of the abdominal segments pale yellow : legs tawny : wings light gray, almost colourless on the disk, where are two large brown spots, and the fore border is also brown, and has a long narrow colourless stripe beneath it ; veins tawny ; poisers tawny, with brown knobs. Length of the body  $4\frac{1}{2}$  lines ; of the wings 10 lines.

a. West Indies. From the Rev. Lansdown Guilding's collection.

*DICHELACERA bifacies*, n. s. *Fusca, capite fulvo, thorace pilis aureis bivitato, pectore cano, abdomine basi fasciisque fulvis, pedibus fulvis, alis limpidis fusco fasciatis et vittatis.*

Head tawny, with two piceous tubercles above : eyes green and purple : palpi tawny ; lancets ferruginous ; sucker piceous : feelers tawny, hairy, rather longer than the head ; second joint not half the length of the first ; third joint nearly twice the length of the first and of the second, slightly curved, piceous except at the base, where it emits a short horn, which is longer than the second joint : chest brown, adorned with two bands of thick golden hairs : breast hoary : abdomen brown ; first and second segments tawny, with the exception of a subquadrate spot on the disk of each ; there are broad tawny bands along the hind borders of the third and of the fourth segments, which are also fringed with golden hairs ; the following segments have slight traces of similar bands ; under-side of the abdomen tawny, with the exception of the piceous sides of the three last segments : legs dull tawny ; feet darker : wings colourless, brown along the fore border ; a brown stripe proceeds from the base of the wing and joins the hind border before the middle, and it is there nearly joined by a band that runs obliquely back from near the tip of the fore border, and emits a short brown branch that joins the hind border near its tip ; veins piceous, tawny in some parts where

the ring is colourless; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Para. Presented by Mrs. J. P. G. Smith.

### SILVIUS, Meigen.

SILVIUS vituli, Meig. Dipt. ii. 27, 1, pl. 13, f. 8—13. Macq. Hist. Nat. Dipt. i. 213, pl. 5, f. 7. Blanch. Hist. Nat. Ins. iii. 590. Gim. Bull. Soc. Imp. Nat. Mosc. 1847, 1, 179. Tabanus italicus, Fabr. Sp. Ins. ii. 457, 15. Ent. Syst. iv. 367, 21. Syst. Antl. 98, 24. Meig. Klass. Zweif. i. 172, e. T. vituli, Fabr. Syst. Antl. 97, 19.

a. Italy. From Dr. Leach's collection.

SILVIUS denticornis, Wied. Auss. Zweif. i. 111, 2.

a. South Africa. Presented by Dr. A. Smith.

SILVIUS isabellinus, Wied. Auss. Zweif. i. 112, 3.

a. Ohio. Presented by the Entomological Club.

SILVIUS (?) fusconiger, n. s., mas. *Fuscus, thorace fulvo trivittato, abdomine nigro nitente, pedibus piceis, alis subfuscis.*

Head brown, clothed behind and beneath with long pale tawny hairs, and having a few picceous hairs in front: eyes and feelers picceous: mouth ferruginous; sucker black: chest brown, clothed on each side with long pale tawny hairs, and having three indistinct very narrow pale tawny stripes remote from each other on the back: abdomen black, shining, clothed thinly on each side with pale tawny hairs: legs picceous: wings pale brown; veins ferruginous; poisers picceous. Length of the body 8 lines; of the wings 16 lines.

a. Port Stephen, New Holland. Presented by the Earl of Derby.

b. New Holland. Presented by J. Hunter, Esq.

This species will perhaps form a new genus.

SILVIUS (?) personatus, n. s., fem. *Fuscus, thorace fulvo univittato alboque quadrivittato, pectore cano, abdomine fuscis fulvis albisque, antennis pedibus ferrugineis, alis fusco quadrimaculatis aut interuruptè fasciatis.*

Body brown: head tawny, white along the rims of the eyes, and thickly clothed beneath with white hairs; hind part hoary: feelers and mouth tawny: chest with a tawny stripe on the back, and with two white stripes on each side, the latter joined together by two oblique bands between them: breast hoary, thickly clothed with pale yellow hairs: abdomen with two bands on each segment,

the one white, the other red; the white bands are broader beneath than above, where they are very narrow on the middle of the back; the red bands appear only on the back, and are very narrow; there is also a tuft of red hairs at the base: legs dark ferruginous; feet piceous: wings colourless, with four brown bands, which are interrupted and paler towards the hind borders; the fourth, at the tip of the wing, consists of two spots; wing-ribs and veins piceous; poisers tawny. Length of the body 6 lines; of the wings 14 lines.

a. New Holland. Presented by J. Hunter, Esq.

SILVIUS (?) *eristaloides*, n. s., mas. *Piceo-ferrugineus, thorace nigro bivittato alboque bimaculato, abdomine nigro fasciis rufis albique, pedibus ferrugineis, alis cinereo-subfasciis piceo maculatis.*

Head ferruginous and thickly clothed with black hairs in front, more thickly clothed with pale tawny hairs beneath: eyes bronze colour: feelers tawny (?): mouth black: chest dark ferruginous, with a hoary bloom, and having two black stripes, in each of which there is a narrow white spot: hind border of the scutcheon adorned with bright red hairs: breast black, clothed with white hairs: abdomen black, with alternate narrow pale red and broader white bands, the former composed of hairs, the latter interrupted in the middle; under-side ferruginous and white: legs ferruginous, rather thickly clothed with short black hairs: wings light grayish brown; cross-veins clouded with piceous, and there is a spot of that colour below the fore border, a little beyond two-thirds of the length of the wing; wing-ribs and veins black, some of the latter dark ferruginous at the base of the wing; poisers tawny. Length of the body 7 lines; of the wings 16 lines.

a. New Holland. From Mr. Children's collection.

This and the two preceding species will form a new genus which approaches *Anthrax*.

#### CHRYSOPTERUS, Meigen.

CHRYSOPTERUS *cæcutiens*, *Fabr. Syst. Antl.* 110, 1. *Latr. Gen. Crust.* iv. 285. *Cons. Gén.* 443. *Fall. Dipt. Succ.* 9, 1. *Meig. Dipt.* ii. 67, 2. *Zett. Ins. Lapp.* 518, 1. *Dipt. Scand.* i. 123. 1. *Macq. Hist. Nat. Dipt.* i. 214, 1, pl. 5, f. 5. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 188, 1. *Blanch. Hist. Nat. Ins.* iii. 591, pl. 2, f. 3. *Tabanus cæcutiens, Linn. Faun. Succ.* 1888. *Fabr. Sp. Ins.* ii. 459, 27. *Ent. Syst.* iv. 372, 42. *Gmel. Ed. Syst. Nat.* v. 2885, 17. *Deg. Ins.* vi. 90, 6. *Schell. Gen. Mouch.* t. xxviii. f. 1, 2. *Lam. Anim. sans Verteb.* iii.

421, 4. *Berk. Syn.* i. 166. *Don. Brit. Ins.* iv. 61, pl. 131. *Stew. Elem. Nat. Hist.* ii. 268. *Turt.* iii. 662. *Latr. Cuv. Regn. Anim. nouv. edit.* v. 476, 7. *T. lugubris*, *Linn. Faun. Suec.* 1889. *Fabr. Sp. Ins.* ii. 460, 28. *Ent. Syst.* iv. 373, 46. *T. viduatus*, *Fabr. Ent. Syst.* iv. 374, 47. *Chrysops lugubris*, *Fabr. Syst. Antl.* 113, 9. *C. viduatus*, *Fabr. Syst. Antl.* 113, 10.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

*CHRYSOPS relictus*, *Hoffmansegg, Meig. Dipt.* ii. 69, 3. *Macq. Hist. Nat. Dipt.* i. 215, 2. *Loew, Prog.* 1840, 6, 2. *Zett. Ins. Lapp.* 518, 2. *Dipt. Scand.* i. 124, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 188, 2. *C. viduatus*, *Meig. Klass. Zweif.* i. 158, 2, pl. 9, f. 12. *Fall. Dipt. Suec.* 10, 2. *Tabanus cæcutiens*, *Panz. Faun. Germ.* xiii. 24. *Tabanus &c.*, *Geoff. Ins.* ii. 463, 8. *T. nubilosus*, *Harris, Ex.* 28, pl. 7, f. 5.

a. France.

*CHRYSOPS pictus*, *Meig. Dipt.* ii. 70, 4. *Macq. Hist. Nat. Dipt.* i. 215, 3. *Loew, Prog.* 1840, 6, 4. *Zett. Dipt. Scand.* i. 125, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 189, 3. *C. viduatus*, var., *Meig. Klass. Zweif.* i. 158, 2.

a. France.

b. ——— ? From Mr. Children's collection.

c. Aix la Chapelle. Presented by F. Walker, Esq.

*CHRYSOPS quadratus*, *Meig. Dipt.* ii. 70, 5. *Macq. Hist. Nat. Dipt.* i. 205, 4. *Loew, Prog.* 1840, 6, 3. *Zett. Ins. Lapp.* 519, 4. *Dipt. Scand.* i. 125, 5. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 189, 4.

a. France.

*CHRYSOPS fenestratus*, *Fabr. Syst. Antl.* 111, 4. *Latr. Gen. Crust.* iv. 285. *Meig. Dipt.* ii. 71, 7. *Tabanus fenestratus*, *Fabr. Ent. Syst.* iv. 373, 44.

a. ——— ?

*CHRYSOPS rufipes*, *Meig. Dipt.* ii. 71, 6.

a. ——— ? From Mr. Children's collection.

*CHRYSOPS italicus*, *Meig. Dipt.* ii. 67, 1, pl. 14, f. 7. *Macq. Hist. Nat. Dipt.* i. 216, 6.

a. South of France. Presented by F. Walker, Esq.

b. Albania. Presented by W. W. Saunders, Esq.

**CHRYSOPS fasciatus**, Wied. *Dipt. Exot.* i. 103, 3. *Auss. Zweif.* i. 198, 5. *C. bifasciata*, Macq. *Dipt. Exot.* i. 157, 3.  
*a.* East Indies. From Archdeacon Clerk's collection.

**CHRYSOPS obliquefasciata**, Macq. *Dipt. Exot.* i. 157, 2.  
*a.* South Africa. Presented by Dr. A. Smith.

**CHRYSOPS dispar**, Fabr. *Syst. Antl.* 112, 5. *Wied. Dipt. Exot.* i. 102, 1. *Auss. Zweif.* i. 196, 3. *Tabanus dispar*, Fabr. *Ent. Syst. Suppl.* 567. *Hæmatopota lunata*, G. R. Gray, *Griff. Ed. Cuv. Anim. Kingd.* xv. 2, pl. 114, f. 4.  
*a.* Bengal. From the Hardwicke bequest.  
*a.* Bengal. From Mr. Children's collection.

**CHRYSOPS ligatus**, n. s., fem. *Ferrugineus, capite flavo-fulvo, thorace cano quadrivittato, abdomine fusco fasciato piceo bivittato basi albido, ventre fulvo apice piceo, pedibus fulvis, tarsis ferrugineis, alis limpidis, marginibus anticis fasciæque fuscis.*

Head yellow above, tawny in front, with a piceous tubercle on the crown where the eyelets are seated, and there is another piceous tubercle above the base of the feelers: palpi tawny: sucker piceous: lancets ferruginous: feelers tawny, as long as the chest; first and second joints hairy; first joint yellow at the base; second a little shorter than the first; third very slightly curved, hardly (?) longer than the first: chest pale ferruginous, with four hoary stripes, the inner pair with a yellowish tinge; sides adorned with bright golden hairs: breast ferruginous, with a hoary bloom: abdomen ferruginous, almost white for one-third of the length from the base, where there is a narrow brown band; this is succeeded by two short piceous stripes that incline to each other and meet on the back (?); underside pale tawny, piceous towards the tip: legs tawny; feet ferruginous: wings colourless; fore borders brown, as is also a broad band across the disk, which becomes fainter and more confined to the veins as it approaches the hind border; wing-ribs and veins tawny; poisers yellow, with ferruginous knobs. Length of the body 4 lines; of the wings 8 lines.

*a.* North Bengal. From Miss Campbell's collection.

**CHRYSOPS terminalis**, n. s., fem. *Fuscus, capite flavo, thorace fulvo bivittato, scutello ferrugineo, abdomine ferrugineo, segmento 2º albido vittis duabus obliquis fuscis, pedibus fulvis, alis limpidis basi fasciæque fuscis.*

Head yellow, with some tawny stripes in front between the base of the feelers and the mouth: eyes purple and green: palpi tawny: lancets and sucker ferruginous: feelers ferruginous, as long

as the chest; first and second joints hairy; second joint a little shorter than the first; third hardly curved, nearly as long as the first: chest brown, clothed with golden hairs, which are thin on the back, but more thick on each side and in front of the scutcheon; the latter is ferruginous, and the chest is also adorned with two broad, indistinct, dull tawny stripes: abdomen pale ferruginous; first segment still paler; second almost white, and having two short brown stripes, which converge together and meet in front, and form a cone including a yellow space; under-side of the abdomen ferruginous, yellowish white at the base: legs tawny, wings colourless, tawny along the fore border, which emits a very short band; the latter is very near to, and inclined towards, the base of the wing; there is also a very broad band passing across the disk of the wing towards the hind border, and becoming bifurcate when it approaches thereto; veins yellow in the colourless, piceous in the coloured parts of the wings; poisers tawny, with ferruginous knobs. Length of the body 4 lines; of the wings 8 lines.

a. East Indies.

*CHRYSOPS semicirculus*, n. s., fem. *Fulvus, thorace piceo quinquevittato, abdomine basi livido, pedibus fulvis, femoribus posticis ferrugineis, alis limpidis fasciis una fusca alteraque fulva fusco circumdata.*

Body tawny: head yellow in front, with a piceous tubercle, on which the cyelets are seated, and another and larger one before the base of the feelers; the latter are yellow and as long as the chest: lancets and palpi tawny: under-side of the head clothed with yellow hairs: chest with five broad but not clearly defined piceous stripes, thinly clothed with golden hairs on the back, but more thickly so on the sides and across in front of the scutcheon: abdomen livid at the base: legs tawny, clothed with white down; hips, knees and hind thighs ferruginous: wings colourless; the fore border tawny, which colour passes to pale brown before the tip, and sends forth near the base a narrow band that passes to the hind border; there is also a broad pale brown band across the middle of the wing; its disk is tawny, and it is forked before it attains the hind border; veins tawny in the coloured, yellow in the colourless part of the wing; poisers tawny. Length of the body 4 lines; of the wings 8 lines.

a. East Indies.

*CHRYSOPS vittatus*, Wied. *Dipt. Erot.* i. 106, 7. *Auss. Zweif.* i. 200, 8. *Harr. Ins. New Engl.* 406.

a. Nova Scotia. From Licut. Redman's collection.

**CHRYSOPS fascipennis**, var. ? *Macq. Hist. Nat. Ins. Dipt.* i. 216, 7.  
a. Georgia. From Mr. Abbot's collection.

**CHRYSOPS areolatus**, n. s. *Fulvus, thorace abdomineque fusco trivittatis, pedibus fulvis, tarsis anticis piceis, alis limpidis, fasciis basi marginibusque anticis fuscis.*

Head bright tawny, ferruginous in front, having a piceous tubercle on which the eyelets are seated, and a larger ferruginous tubercle above the base of the feelers: eyes coppery: palpi tawny: lancets ferruginous: sucker piceous: feelers nearly as long as the chest; first and second joints ferruginous, and beset with black bristles; second joint nearly as long as the first; chest bright tawny, clothed with yellow hairs, and having three brown stripes: breast also striped with tawny and brown: abdomen tawny, with three brown stripes which are very faint on the under-side; the segments successively decrease in length to the tip: legs tawny; hips, fore feet, and tips of the other feet piceous: wings colourless, brown at the base and along the fore border, and having a broad band of the same colour across the middle of the disk: several of the cells in the brown part are almost colourless; veins and poisers piceous, some of the former tawny where the wings are colourless. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

a. New York. Presented by E. Doubleday, Esq.

**CHRYSOPS canifrons**. *Ferrugineus, capite scutelloque fulvis, thorace vittis tribus lividis, pectore cinereo-fulvo, abdomine fulvo fasciis ferrugineis et piceis, pedibus fulvis, tarsis ferrugineis, alis limpidis marginibus anticis fasciisque abbreviatis fuscis.*

Head tawny, hoary behind, and having a tinge of that colour on the crown where the eyelets are seated on a tubercle; there is another tubercle above the base of the feelers which is tawny, and nearly as long as the chest; first and second joints beset with black bristles; first joint longer than the second; third joint nearly as long as the first and second, ferruginous at the base, piceous towards the tip: eyes purple and green: palpi yellow; lancets ferruginous; sucker piceous: chest ferruginous, with three livid stripes; scutcheon tawny: breast grayish tawny: abdomen tawny, paler beneath and at the base; a broad ferruginous interrupted band across each segment, with the exception of the two last, where the bands are piceous: legs tawny; hips with a hoary tinge; feet ferruginous: wings brown along the fore border; this colour descends towards the hind border, first in an oblique line near the base, secondly, in a broad band across the middle of the wing, and lastly, between this band and the tip of the wing, where it is paler and of a



grayish hue; the wings also have a tawny tinge beneath the fore-border at two-thirds of their length; veins ferruginous; poisers tawny, with ferruginous knobs. Length of the body 4 lines; of the wings 8 lines.

a. Florida. Presented by E. Doubleday, Esq.

*CHRYSOPS approximans*, n. s. *Fulvus, capite subtus albo thorace vittis duabus fulvescentibus, abdomine piceo utrinque maculato subtusque fasciato, pedibus fulvis, tarsis et protibiis piceis, alis limpidis fusco cinereo fulvoque variis.*

Head tawny, white behind and beneath: eyes green and red: palpi tawny: sucker piceous, hairy: feelers bright tawny; third joint pointed, slightly curved, piceous towards the tip: chest bright tawny; most of its disk, excepting the scutcheon dull pale tawny, in which colour two indistinct tawny stripes may be traced: breast mostly hoary: abdomen tawny; the segments from the third to the seventh have a piceous spot on each side, and these spots pass more or less interruptedly over the back; under-side with a broad piceous band on the fore borders of the segments from the fourth to the seventh: legs tawny, and clothed with tawny hairs; feet and tips of the fore thighs pale piceous; fore shanks and fore feet dark piceous: wings colourless, tawny along the space between the fore border and the longitudinal vein beneath, at whose tip they are brown; the cross-veins are also clouded with brown, and the tip of the wing has the same colour, which passes into gray as it approaches the hind border; veins tawny, piceous towards the tips; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Florida. Presented by E. Doubleday, Esq.

*CHRYSOPS convergens*, n. s., fem. *Fulvus, capite subtus albo, thoracis disco cinereo-fusco fulvo bivittato, pectore cinereo, abdomine apice piceo, pedibus fulvis fusco-fasciatis tibiis tarsisque anticis piceis, alis limpidis fusco et cinereo variis.*

Head tawny, white behind and beneath: eyes green and purple: feelers bright tawny; third joint brown towards the tip: palpi and lancets tawny: sucker piceous: chest tawny; its disk, excepting the scutcheon, grayish brown, and having two indistinct tawny stripes: breast mostly gray: abdomen tawny; last segment and sides of the preceding one piceous: legs tawny; fore shanks and fore feet dark piceous; middle shanks and base of middle feet pale tawny, rest of middle feet pale ferruginous; hind feet, excepting the base, reddish brown, and there is a broad band of the same colour round each hind shank: wings colourless, the tawny stripe

along the fore border is interrupted near its tip by a brown spot; cross-veins slightly clouded with brown; tips of wings also brown, which colour passes into gray towards the hind borders; veins tawny, piceous towards the tips; poisers pale tawny. Length of the body 3 lines; of the wings 6 lines.

a. Honduras. From Mr. Miller's collection.

**CHRYSOPS inornatus**, n. s. *Fulvus, thorace fusco univittato, pectore fusco, abdomine fusco bivittato, pedibus fuscis, propedibus piceis, alis cinereis marginibus anticis fuscis.*

Head tawny, with two black shining tubercles above, and a larger dark piceous tubercle between the feelers and the mouth: eyes coppery: palpi and mouth piceous: feelers tawny; first and second joints beset with short bristles; second joint not half the length of the first; third joint wanting: chest tawny, with a broad pale brown stripe on its disk: breast brown and shining: abdomen tawny: its back with two brown lines which occupy almost the whole length and nearly join each other at the tip; legs brown; knees and base of feet tawny; fore legs piceous: wings gray, with a brown line along the fore border; this stripe is darker at two-thirds of the length of the wing where there is a small brand, it then becomes narrower and afterwards wider and paler, and occupies the whole of the tip of the wing; veins piceous, tawny towards the base of the wing; poisers tawny, with ferruginous knobs. Length of the body 4 lines; of the wings 8 lines.

a. Brazil.

**CHRYSOPS costatus**, *Fabr. Syst. Antl.* 112, 8. *Wied. Dipt. Exot.* i. 104, 4. *Auss. Zweif.* i. 198, 5.

a. Jamaica. From Mr. Gosse's collection.

**CHRYSOPS furcatus**, n. s. *Niger, capite flavo, thorace vittis quatuor lateribusque fulvis, pectore fulvo bivittato, abdomine flavo maculis nigris ferè trivittato, pedibus fulvis piceo variis, propedibus piceis, alis subcinereis basi marginibus anticis fasciâque fuscis.*

Head yellow, slightly hoary behind, with two piceous tubercles above, ferruginous and shining in front between the feelers and the mouth, where there are also two piceous shining spots on each side: palpi tawny: sucker piceous: lancets ferruginous: feelers much shorter than the chest; first and second joints hairy; first joint ferruginous, black at the tip above; second joint black, ferruginous at the base below, a little shorter than the first: third joint black, gray at the base, very slightly curved, gradually tapering to the tip,

longer than the first and the second; chest black, with four dull tawny stripes; sides bright tawny and clothed with tawny hairs, as is also the breast, which has a tawny stripe on each side: abdomen yellow above; first segment with a large black subquadrate spot lessening in width from the fore to the hind border; second segment with a spot of the same form at the base but divided at the tip; third, fourth, and fifth segments having each four smaller black obconical spots; sixth and seventh black along the fore borders; under-side of abdomen with a middle row of large spots, and a row of smaller spots on each side: fore legs piceous; four hinder legs tawny; hips, base, and tips of thighs, knees and tips of shanks and joints of the feet piceous; there are also stripes of that colour along the thighs and the shanks: wings very slightly gray, brown at the base and along the fore border, and having a broad brown band which does not reach the hind border, but is joined to a much paler band which runs back to the inner angle of the wing; veins and poisers piceous. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHRYSOPS obsoletus*, Wied. *Dipt. Exot.* i. 108, 10. *Auss. Zweif.* 211, 25.

a. Hudson's Bay. Presented by G. Barnston, Esq.

*CHRYSOPS geminatus*, Wied. *Auss. Zweif.* i. 205, 16.

a. ——— ?

*CHRYSOPS lateralis*, Wied. *Auss. Zweif.* i. 209, 21.

a. Honduras. From Mr. Miller's collection.

*CHRYSOPS pellucidus*, *Fabr. Syst. Antl.* 113, 11. *Wied. Dipt. Exot.* i. 107, 8. *Auss. Zweif.* i. 206, 18.

a. East India?

*CHRYSOPS tarsalis*, n. s., fem. *Cinereus, thorace cano trivittato, pedibus piceis, tarsi posterioribus femoribusque flavis, alis limpidis, fusco-fasciatis apice cinereis.*

Allied to *longicornis*, *Macq. Dipt. Exot.* i. 156. Head gray, piceous and shining on the tubercle above the base of the feelers, and having below them and at the base of the mouth another and larger tubercle of the same colour; the sides of this tubercle and a spot between the feelers are clothed with yellow down: eyes very dark red, indistinctly banded: palpi and lancets dull ferruginous; sucker piceous: feelers piceous, filiform, pubes-

cent, as long as the head and the chest; first joint ferruginous, piceous at the tip; second joint nearly as long as the first; third joint much less than half the length of the second: fourth joint very slightly curved, nearly as long as the second: chest and breast very dark gray, the former with three indistinct hoary lines along its back, its sides and the hind border of its shield are adorned with golden hairs: abdomen a little longer than the chest, black, clothed with pale down, and having a large pale tawny spot on each side of the base: legs piceous; thighs and four hinder feet yellow, with dark brown at the base and along the fore border; there is also a very broad cross band near the tip, which is gray; veins yellow in the colourless, piceous in the coloured parts of the wing; poisers dark piceous. Length of the body 3 lines; of the wings 7 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*CHRYSOPS cincticornis*, n. s., fem. *Niger, capite, pectoreque piceis pedibus nigris, tarsis piceis, alis fuscis fulvo fasciatis et vittatis.*

Head piceous, shining: eyes, palpi, and lancets also piceous; sucker black: feelers ferruginous, full half the length of the chest; first and second joints black, clothed with black hairs at their tips; third joint black, except at the base, a little longer than the first and second, its jointed part is narrower than its base and much curved: chest black, its side clothed with yellow hairs; breast piceous: abdomen black, clothed with pale hairs which are most thick along the hind borders of the segments: legs black; feet piceous: wings brown with tawny tips, and having also a broad pale tawny band which begins below the fore border, and continues widening as it advances to the hind border; there are two or three pale tawny stripes between this band and the tip of the wing; veins piceous in the darker part, tawny in the paler part of the wing; poisers piceous. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. ——— ?

*CHRYSOPS mœrens*, n. s. *Fuscus, capite fulvo, thorace vittis quatuor lateribus pectoreque canis, abdominis segmentis fulvo fasciatis alboque maculatis, pedibus ferrugineis piceo variis, alis limpidis, fascia basi marginibusque anticis fuscis.*

Head tawny, with two piceous shining tubercles above: eyes purple and green: palpi tawny: lancets ferruginous: sucker piceous: feelers much shorter than the chest; first and second joints tawny, beset with black bristles; second joint much shorter than the first; third joint black; a little longer than the first and second,

very slightly curved, tapering to the tip, tawny at the base: chest dark brown, with four hoary stripes; sides and breast also hoary: abdomen very dark brown, with a large irregular white spot on each side of the base, and a conical spot of the same colour on the hind border of the third, of the fourth, and of the fifth segments; hind borders of the segments very pale tawny, and fringed with pale yellow hairs; under-side of abdomen brown with a gray bloom, and having a tawny spot on each side of the second and of the third segments: legs ferruginous; hips, hind thighs, feet, and tips of thighs, and of shanks piceous; four hinder feet ferruginous at the base: wings colourless; the base, the fore border, and a broad band across the disk are brown: the band does not reach the hind border, but is continued obliquely, and of a paler colour towards the base of the wing; veins black, tawny towards the base of the wing; poisers tawny, with piceous knobs. Length of the body 4—4½ lines; of the wings 8½—9 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*CHRYSOPS sepulchralis*, *Fabr. Syst. Antl.* 113, 12. *Fall. Dipt. Suec.* 11, 4. *Meig. Dipt.* ii. 74, 10. *Zett. Ins. Lapp.* 519, 5, *Kirby, North Amer. Zool. Ins.* 314, 1. *Tabanus sepulchralis. Fabr. Ent. Syst.* iv. 374, 48.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHRYSOPS niger?* *Macq. Dipt. Exot.* i. 161, 10. *Niger, capite cinereo, thorace cinereo quadrivittato, pectore cano, abdomine maculis fasciisque canis maculisque duabus basi fulvis, pedibus piceis, tarsis posterioribus basi ferrugineis, alis subcinereis fusco bifasciatis.*

Head gray, with the two usual piceous shining spots, pale yellow between the feelers and the mouth, where there are two obclavate shining brown spots that join together at the base of the mouth: palpi dark gray; lancets ferruginous; sucker piceous: eyes green and purple: feelers black, much shorter than the chest; first and second joints hairy; first tawny, piceous at the tip; second a little shorter than the first; third joint very slightly curved, tapering from near the base to the tip, longer than the first and the second: chest black, with four very indistinct gray stripes, its sides fringed with yellow hairs: breast hoary, also clothed, but more thinly, with yellow hairs: abdomen black, with a tawny spot on each side at the base, and a row of hoary conical spots along the middle; these spots rest on the hind borders of the segments, and are most distinct on the second, third, and fourth; hind borders of the segments hoary above, dull pale tawny beneath: legs piceous;

thighs clothed with a few short yellow hairs; four hinder feet dark ferruginous at the base: wings slightly gray, brown at the base and along the fore border, but hardly so beyond the broad brown band; the latter descends into the disk of the wing, but does not reach the hind border, it is joined to a much paler band that accompanies the longitudinal vein to the base of the wing; veins black; poisers dark piceous. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. New York. Presented by the Entomological Club.

b. New York. Presented by E. Doubleday, Esq.

*Note.* This is a variable species, and the insects from which the preceding characters are taken, differ slightly from Macquart's description.

*CHRYSOPS carbonarius*, n. s. *Niger, capite fulvo, thorace cinereo quadrivittato, abdomine subtus piceo, pedibus nigris, tarsis posterioribus basi piceis, alis limpidis fusco vittatis et fasciatis.*

Head hoary behind, tawny above, with the two usual piceous tubercles; the shining piceous part between the mouth and the base of the feelers occupies more space in this species than in *C. areolatus*; under-side of the head clothed with long pale yellow hairs: palpi dark gray; lancets ferruginous; sucker piceous: eyes green and purple: feelers shorter than the chest; first and second joints tawny, with piceous tips, beset with black bristles; second joint a little shorter than the first; third joint black, curved, tawny at the base, tapering from near the base to the tip, longer than the first and second: chest black, clothed with pale tawny hairs, and having four very indistinct gray stripes: breast, sides, and abdomen also black, and thinly clothed with yellow hairs; under-side of abdomen dark piceous: legs black; hips and thighs clothed with yellow hairs; first joint, excepting its tip, and the base of the second and of the third joints of the four hinder feet tawny: wings brown at the base and along the fore border, and on the fore half of the breadth of the wing from the base to near the middle: a narrow and short colourless band separates this brown part from a broad band of the same colour, the latter extends to the hind border, but is paler in the latter part of its course, it forms the boundary of the brown part of the hind border; veins black; poisers dark piceous. Length of the body  $3\frac{1}{2}$ —4 lines; of the wings 7—8 lines.

Var.  $\beta$ . The first joint of the feelers and nearly the whole front of the head between the feelers and the mouth are bright tawny: abdomen more thickly clothed with tawny hairs, tawny at the base:

the brown from the base to the middle of the wing is confined to the fore border, and the brown band hardly attains the hind border.

Var.  $\gamma$ . With some nearly colourless spaces in the brown band.

a. Nova Scotia. From Lieut. Redman's collection.

*CHRYSOPS divisus*, n. s. *Piceus, capite fulvo vario, pedibus nigris, posterioribus basi lividis, alis fuscis apice limpidis.*

Body dark piceous: head clothed with black hairs, bright tawny around the eyes and about the mouth: eyes green and purple: palpi and sucker piceous; lancets ferruginous: feelers black: chest and abdomen clothed with dark tawny hairs: legs black, clothed with dark hairs; four hinder feet livid towards the base; wings dark brown, paler towards the hind border, and quite colourless at the tips; veins piceous in the coloured, yellow in the colourless parts of the wings: poisers dark piceous. Length of the body 3 lines; of the wings 6 lines.

a. Florida. Presented by E. Doubleday, Esq.

*CHRYSOPS plangens*, Wied. *Auss. Zweif.* i. 210, 22.

a. Georgia. From Mr. Abbot's collection.

*CHRYSOPS fuliginosus*, Wied. *Dipt. Exot.* i. 109, 11. *Auss. Zweif.* i. 210, 23.

a. Florida. Presented by E. Doubleday, Esq.

b. ———? Presented by the Entomological Club.

*CHRYSOPS subcanus*, n. s., fem. *Niger, capite pectoreque canis thorace cinereo quadrivittato, abdomine cinereo subtus cano, pedibus alisque nigris.*

Head hoary, dark brown on the crown, clothed with long white hairs beneath: eyes purplish green: palpi dark ferruginous: lancets tawny: feelers black, a little shorter than the head; first and second joints hairy, rather hoary; third joint slightly curved: chest black, with four broad but indistinct gray stripes that occupy nearly the whole of the back: breast hoary: abdomen gray above, hoary beneath, fringed slightly on each side, but more thickly on the hind borders of the segments with yellowish white hairs: legs black; thighs clothed with short hoary down; wings and their veins black; poisers piceous. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. New Holland. Presented by the Entomological Club.

*CHRYSOPS calidus*, n. s., mas. *Niger, capite fulvo, thoracis lateribus ferrugineis, abdomine ferrugineo nigro vittato, antennis nigris pedibus fulvis, genubus, tibiis apice et protarsis nigris, alis nigro-fuscis flavo vittatis. Thoracis vittis quatuor lateribus pectoreque fulvis.*

*Male.* — Head tawny, with a piceous spot on each side above the base of the feelers, and another on each side of the shining tubercle on the front: sucker black; lancets and palpi tawny: feelers black, much longer than the head: chest and breast black, the former slightly ferruginous on each side: abdomen bright ferruginous, a black stripe on the back, slightly interrupted on the hind borders of the segments, tapering from the base till near the tip of the abdomen, where it again widens: legs tawny; knees, tips of shanks and fore feet black; four hinder feet piceous, tawny at the base: wings dark brown, with a broad yellow stripe from the base unto two-thirds of the length, between which and the tip if may still be traced; wing-ribs and veins piceous; poisers yellow. *Fem.* — Chest black, with four tawny stripes; sides and breast also tawny. Length of the body  $3\frac{1}{2}$ —4 lines; of the wings 7—8 lines.

a. South Africa.

### ECTENOPSIS, Macquart.

*ECTENOPSIS vulpecula*, Macq. *Dipt. Exot.* i. 1, 112, 1. *Chrysops vulpecula*, Wied. *Auss. Zweif.* i. 195.

### HEXATOMA, Meigen.

*HEXATOMA bimaculata*, Meig. *Dipt.* ii. 831. *Macq. Hist. Nat. Dipt.* i. 213, 1. *pl.* 5, *f.* 6. *Blanch. Hist. Nat. Ins.* iii. 590. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 192, 1. *Tabanus pellucens*, Fabr. *Sp. Ins.* 457, 12. *Ent. Syst.* iv. 365, 15. *Gmel. Ed. Syst. Nat.* v. 2883, 23. *Meig. Klass. Zweif.* i. 172, e. *Schæf. Icon.* t. 72, *f.* 6—8. *Schell. Gen. Mouch.* t. 28, *f.* 3. *Heptatoma bimaculata*, Fabr. *Syst. Antl.* 105, 1. *Meig. Klass. Zweif.* i. 156, 1. *Latr. Gen. Crust.* iv. 284. *Cons. Gén.* 443. *Tabanus albipes*, Schrank. *Ins. Austr.* 977. *Faun. Boic.* iii. 2531.

a. France?

b. Aix la Chapelle, Prussia. From Mr. Walker's collection.



## HÆMATOPOTA, Meigen.

HÆMATOPOTA pluvialis, *Fabr. Syst. Antl.* 106, 1. *Latr. Gen. Crust.* iv. 284. *Cons. Gén.* 443. *Meig. Klass. Zweif.* i. 162, pl. 5, f. 4. *Fall. Dipt. Suec.* 9, 1. *Meig. Dipt.* ii. 7, 8, pl. 11, f. 8. *Macq. Hist. Nat. Dipt.* i. 210, 1. *Loew. Prog.* 1840, 6, 1. *Zett. Dipt. Acad.* i. 122, 1. *Ins. Lapp.* 517, 1. *Blanch. Hist. Nat. Ins.* iii. 590, pl. 2, f. 2. *Gim. Bull. Soc. Imp. Nat. Ins.* 1847, 1, 191, 1. *Tabanus, &c., Geoff. Ins.* ii. 461, 5. *Tabanus pluvialis, Linn. Syst. Nat.* ii. 1001, *Faun. Suec.* 1887. *Fabr. Sp. Ins.* ii. 459, 23. *Ent. Syst.* iv. 369, 32. *Gmel. Ed. Syst. Nat.* v. 2885, 16. *Deg. Ins.* vi. 89, 5. t. 13, f. 1. 2. *Panz. Faun. Germ.* xiii. 23. *Reaum. Ins.* vi. t. 18, f. 1. *Faun. Boic.* iii. 2535. *Schæf. Icon.* t. 85, f. 8, 9. *Lam. Anim. sans Vert.* iii. 421, 5. *Berk. Syn.* i. 166. *Don. Brit. Ins.* v. 21, pl. 151, f. 3. *Stew. El.* ii. 267. *Turt.* iii. 660. *Tabanus hyetomantis, Schrank. Faun. Boic.* iii. 2536. *Hæmatopota italica, Meig. Klass. Zweif.* i. 1632.

a. England.

b. France.

c. ———? From Mr. Children's collection.

d. Alten, Finmark. From Mr. Walker's collection.

HÆMATOPOTA tenuicornis, *Macq. Hist. Nat. Dipt.* i. 210, 2. *H. pluvialis*, var. 1, *Meig. Dipt.* ii. 79. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 192.

a. France.

HÆMATOPOTA longicornis, *Macq. Hist. Nat. Dipt.* i. 211, 3. *H. pluvialis*, var. 2, *Meig. Dipt.* ii. 79. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 192.

a. France.

HÆMATOPOTA grandis, *Megerle. Macq. Hist. Nat. Dipt.* i. 211, 4. *H. pluvialis*, var. 3, 4, *Meig. Dipt.* ii. 79.

a. France.

HÆMATOPOTA equorum, *Fabr. Syst. Antl.* 109, 8, *Meig. Dipt.* ii. 80, 2.

a. England.

b. France.

HÆMATOPOTA variegata. var.? *Fabr. Syst. Antl.* 109, 6. *Meig. Dipt.* i. 81, 3.

a. ———? From Mr. Children's collection.

*HÆMATOPOTA lunata*, var. ? *Fabr. Syst. Antl.* 109, 7. *Meig. Dipt.* i. 82, 4.

a. ——— ? From Mr. Children's collection.

*HÆMATOPOTA concentralis*, n. s., mas. *Cinerea, capite albo, thoracis vittis tribus lateribus pectoreque canis, abdomine fulvo maculis pallidioribus trivittato, apice piceo, pedibus fulvis, alis cinereis punctis maculisque curvis numerosis limpidis.*

Head white, clothed beneath with white hairs, eyes tawny. with a brassy line in front: mouth tawny, clothed with pale hairs: feelers tawny; first and second joints clothed with short black hairs; second joint not one-fourth of the length of the first; third joint pale ferruginous, slender, slightly curved, a little longer than the first and the second: chest gray, with three hoary stripes; its sides and the breast hoary: abdomen tawny, piceous at the tip, with three paler marks in each segment; the middle marks are linear, and form an uninterrupted stripe; the side-marks are somewhat triangular and do not occupy half the length of each segment; under-side pale tawny, clothed with white hairs: legs tawny, clothed with white hairs; shanks and feet also clothed with black hairs: wings gray, with numerous colourless dots and segments of circles; veins and poisers tawny. Length of the body 4 lines; of the wings 8 lines.

Allied to *H. lusitanica*, *Guer. Icon. Regne. Anim.* pl. 77, f. 4.

a. ——— ?

*HÆMATOPOTA cana*, n. s., fem. *Cana, thorace albido quadrivittato, abdomine fusco vittato fulvoque fasciato, pedibus piceis, tarsis posterioribus basi tibiisque fulvis, alis subcinereis maculis numerosis lunatis limpidis.*

Body hoary: head white beneath: eyes bronze colour: feelers black, a little longer than the head; first joint tawny towards the base: mouth black: palpi hoary, tawny towards the tips: chest with four indistinct whitish stripes: abdomen with a broad brown stripe on the back; hind borders of the segments pale tawny: legs piceous; shanks tawny, with piceous tips; four hinder feet tawny at the base: wings very pale gray, adorned with numerous colourless segments of circles; wing-ribs and veins tawny, the latter piceous towards the tips of the wings; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. North Bengal. From Miss Campbell's collection.

*HÆMATOPOTA imbrium*, Wied. *Auss. Zwief.* i. 215, 4.

a. South Africa. Presented by Dr. A. Smith.

*HÆMATOPOTA roralis*, Fabr. *Syst. Antl.* 107, 2. *Wied. Dipt. Exot.* i. 97, 1. *Auss. Zwief.* i. 215, 3. *H. irrorata*, var. ? *Macq. Dipt. Exot.* i. 163, 1.

a. Java. From Mr. Argent's collection.

b. ——— ?

*HÆMATOPOTA javana*, Wied. *Dipt. Exot.* i. 101, 7, 100, 5. *Auss. Zwief.* i. 218, 7.

a. Madras. Presented by Walter Elliott, Esq.

### *HADRUS, Perty.*

*HADRUS cyanea*, n. s. *Rufa, capite nigro, thorace cano quinquevittato, abdomine cyaneo, pedibus nigro-purpureis, alis fuscis maculis tribus apicibusque limpidis.*

Body short and thick: head black, with two shining dots between the eyes, and a piceous shining tubercle in front on which the feelers are seated: eyes bronze-black: palpi purplish blue: sucker and lancets piceous: feelers black; third joint piceous, compressed, nearly spindle-shaped, narrower towards the tip which is pointed, and it is armed with a small horn on the middle of the upper-side: chest and breast dark red, clothed with hoary down; their disks are almost black, and the former has five indistinct hoary stripes: abdomen blue, clothed with black down: legs black, and clothed with black hairs; thighs with a slight purplish tint; shanks purplish blue, dilated: wings dark brown from the base to beyond the middle and thence quite colourless to their tips; the dark colour loses its intensity as it passes the middle of the wing, whence to the hind border it changes to pale brown; the darkest part encloses three very small colourless spots, the smallest is near the base of the wing, the second is long and narrow, and appears a little below the fore border, the third is irregular in outline, and lies at a short distance below the second; veins piceous in the brown part, pale yellow in the colourless part of the wing; poisers pale brown, piceous on the under-sides of the knobs. Length of the body 5 lines of the wings 12 lines.

a. Brazil. Presented by Mrs. J. P. G. Smith.

b. ——— ?

- HADRUS lepidotus, *Perty. Delect. Anim. Articulat.* 183, *pl. xxx. f.*  
 9. Tabanus lepidotus, *Wied. Auss. Zweif.* i. 193, 123.  
 Lepiselaga lepidota, *Macq. Dipt. Exot.* i. 1, 154, 1, *pl. 18,*  
*f. 3.*  
*a. Brazil.*

### DIABASIS, *Macquart.*

- DIABASIS varius, n. s., mas. *Niger, pilis nigris aureis fulvis albisque varius, pedibus nigris, alis cinereis basi marginibusque anticis fuscis.*

Body black, short and thick: head and mouth thickly clothed with black hairs: eyes red: feelers black; third joint slender, long, curved, pointed, not angular: chest and breast thickly clothed with black hairs; the former having its hind part thickly clothed with golden hairs, and there is a patch of hairs of the same colour at the base of each wing: abdomen clothed with tawny hairs, and having a patch of shining yellowish white hairs on each side of the hind borders of two segments towards the tip, and a fringe of hairs of the same colour on the hind border of every segment beneath: legs black, clothed with black hairs: wings gray brown at the base, and having a broad brown stripe along the fore border till near the tip, where it is wider and paler, and descends into the disk of the wing; veins and poisers black. Length of the body 5 lines; of the wings 10 lines.

- a. Chili.* From Mr. Cuming's collection.

### GASTROXIDES, *Saunders.*

- GASTROXIDES ater, *Saunders, Trans. Ent. Soc. Lond.* iii. 59, *pl. v. f. 4.*  
*a. North Bengal.* Presented by W. W. Saunders, Esq.

### ACANTHOMERA, *Wiedemann.*

- ACANTHOMERA immanis, *Wied. Auss. Zweif.* ii. 623, 18.  
*a. Brazil.* From Mrs. Noel's collection.  
*b. Brazil.* From Mr. Mornay's collection.

- ACANTHOMERA Heydenii, *Wied. Auss. Zweif.* i. 555, 26.  
*a. Venezuela.* From Mr. Dyson's collection.

- ACANTHOMERA picta, *Wied. Dipt. Exot.* i. 61, 1. *Auss. Zweif.* i. 108, 2. *Macq. Hist. Nat. Dipt.* i. 218, 1. *Dipt. Exot.* i. 1,

167, 1, *pl.* 5, *f.* 8. *Guér. Icon. Regn. Anim. Ins. pl.* 98, *f.* 3.

a. Brazil. From Mr. Argent's collection.

ACANTHOMERA vittata, *Wied. Auss. Zweif.* i. 109, 3. *Macq. Dipt. Exot.* i. 1, 168, 2. A. Servillei, *Guérin. Icon. Regn. Anim. Ins. pl.* 98, *f.* 2.

a. Brazil. From Mrs. Noel's collection.

ACANTHOMERA seticornis, *Wied. Auss. Zweif.* i. 108, 1. *Macq. Dipt. Exot.* i. 1, 168, 3, *pl.* 20, *f.* 1. *Blanch. Hist. Nat. Ins.* iii. 591, *pl.* 2, *f.* 4.

a. Brazil. From Mrs. Noel's collection.

#### Fam. IV. LEPTIDES.

##### RHAGIO, Olivier.

RHAGIO strigosus, *Meig. Klass. Zweif.* i. 299, 3. *Leptis strigosa*, *Meig. Dipt.* ii. 88, 1. *Macq. Hist. Nat. Dipt.* i. 426, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 195, 6. *Blanch. Hist. Nat. Anim. Art.* 603, *pl.* 3, *f.* 8. *Sylvicola derelictus*, *Harris, Ex.* 102, *pl.* 31, *f.* 7.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

RHAGIO scolopaceus, *Fabr. Sp. Ins.* ii. 419, 1. *Ent. Syst.* iv. 271, 1. *Schell. Mouch.* t. 3, *f.* 1. *Schrank. Faun. Boic.* iii. 2391. *Panz. Faun. Germ.* xiv. 9. *Latr. Gen. Crust.* iv. 288. *Cons. Gén.* 443. *Meig. Klass. Zweif.* i. 298, 1. *Lam. Anim. sans Verteb.* iii. 423, 2. *Musca scolopacea*, *Linn. Faun. Suec.* 1788. *Gmel. Ed. Syst. Nat.* v. 2864, 16. *Schrank. Ins. Austr.* 897. *Stew. El.* ii. 263. *Turt.* iii. 632. *Sylvicola solitarius*, *Harris, Ex.* 100, *pl.* 31, *f.* 1, 2. Var.? *S. monotropus*, *Harris, Ex.* 101, *pl.* 31, *f.* 5. *Nemotelus scolopaceus*, *Deg. Ins.* vi. 68, 1, t. 9, *f.* 6—9. *Leptis scolopacea*, *Fabr. Syst. Antl.* 69, 1. *Fall. Dipt. Suec. Anthrac.* 10, 1. *Meig. Dipt.* ii. 89, 2. *Latr. Cur. Regn. Anim. nouv. edit.* v. 469. *Macq. Hist. Nat. Dipt.* i. 426, 1. *Zett. Ins. Lapp.* 526, 1. *Dipt. Scand.* i. 216, 1. *Loew, Prog.* 1840, 7. 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 193, 1.

a. England.

b. ——— ? From Mr. Children's collection.

c. Finmark. Presented by F. Walker, Esq.

**RHAGIO conspicuus**, *Latr. Gen. Crust.* iv. 288. *Leptis conspicua*, *Meig. Klass. Zweif.* i. 299, 4. *Dipt.* ii. 90, 3. *Macq. Hist. Nat. Dipt.* i. 426, 3.

a. France.

**RHAGIO tringarius**, *Fabr. Sp. Ins.* ii. 419, 2. *Ent. Syst.* iv. 272, 2. *Schränk. Faun. Boic.* iii. 2390. *Latr. Gen. Crust.* iv. 288. *Meig. Klass. Zweif.* i. 300, 5. *Lam. Anim. sans Verteb.* iii. 423, 3. *Musca tringaria*, *Linn. Syst. Nat.* ii. 982. *Faun. Suec.* 1789. *Gmel. Ed. Syst. Nat.* v. 2864, 18. *Leptis tringaria*, *Fabr. Syst. Anth.* 69, 2. *Fall. Dipt. Suec. Anthrac.* 10, 2. *Macq. Hist. Nat. Dipt.* i. 427, 5. *Zett. Ins. Lapp.* 526, 2. *Dipt. Scand.* i. 217, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 194, 2. *Nemotelus scolopaceus*, var., *Deg. Ins.* vi. 69, 1, t. 9, f. 10. *Sylvicola solivagus*, *Harris, Ex.* 101, pl. 31, f. 3.

a. England.

b. France.

**RHAGIO immaculatus**, *Meig. Klass. Zweif.* i. 301, 8. *Sylvicola reconditus*, *Harris, Ex.* 101, pl. 31, f. 3. *Leptis immaculata*, *Meig. Dipt.* ii. 93, 7. *Macq. Hist. Nat. Dipt.* i. 427, 6.

a. France?

b. ———? From Mr. Children's collection.

**RHAGIO vitripennis**. *Rhagio tringarius*, *Panz. Faun. Germ.* xiv. 20. *Leptis vitripennis*, *Meig. Dipt.* ii. 91, 5. *Macq. Hist. Nat. Dipt.* i. 426, 4. *Loew, Prog.* 1840, 7, 5. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 194, 4.

a. England.

**RHAGIO fuscipennis**. *Leptis fuscipennis*, *Megerle, Meig. Dipt.* ii. 97, 13.

a. France.

**RHAGIO maculatus**. *Nemotelus maculatus*, *Deg. Ins.* vi. 69, 3. *Rhagio annulatus*, *Meig. Klass. Zweif.* i. 299, 2. *R. nigrofasciatus*, *Meig. Klass. Zweif.* i. 301, 7. *Leptis distigma*, *Hoffmansegg, Meig. Dipt.* ii. 93, 8, pl. 15, f. 19. *Macq. Hist. Nat. Dipt.* i. 427, 7. *Loew, Prog.* 1840, 7. *L. maculata*, *Fall. Dipt. Suec.* 11, 5. *Meig. Dipt.* ii. 95, 10. *Zett. Dipt. Scand.* i. 220, 7. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 196, 8.

a. ———? From Mr. Children's collection.

**RHAGIO intermedius**, n. s., mas. et fem. *Fulvus, thorace fusco trivittato, pectore flavo-albido, abdomine fusco quadrimaculato apice obscuriore, pedibus fulvis, alis subfulvis.*

Allied to *R. tringarius* and to *R. immaculatus*. Body tawny: head paler beneath, clothed with tawny hairs: eyes brassy: palpi, lancets and sucker tawny, the former clothed with black hairs: feelers pale ferruginous; the bristle or fourth joint piceous: chest tawny, thinly clothed with black hairs, and having three broad brownish stripes, which cease before they reach the scutcheon; middle stripe very slightly divided; breast whitish yellow: abdomen tawny and clothed with black hairs; each of the segments from the first to the fourth with a brown spot on its back; following segments more dull: legs tawny, clothed with tawny down: feet dull ferruginous: wings with a slight tawny tinge, especially at the base and along the fore border; veins tawny; poisers pale tawny. Length of the body 4—5 lines; of the wings 9—10 lines.

Var.  $\beta$ . Stripes on the chest very indistinct: abdomen without spots.

Male like the female: breast grayish: abdomen darker towards the tip.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**RHAGIO albicornis**. *Leptis albicornis*, Say, *Journ. Acad. Philad.* 1822, 38, 9. *Amer. Ent. t.* 13. *Wied. Auss. Zweif.* i. 223, 4.

a. Georgia. From Mr. Abbot's collection.

**RHAGIO mystacea**. *Leptis mystacea*? *Macq. Dipt. Exot.* ii. 1, 30, 1, pl. 3, bis. f. 2. Mas.—*Niger, capite subtus, pectore et metathorace cinereis, thoracis lateribus scutelloque ferrugineis, abdomine rufo-fusco fulvo fasciato et maculato, basi fulvo, antennis fulvis, basi piceis apice nigris, pedibus rufo-fuscis, tibiis quatuor anticis flavo-albis, alis subcinereis fusco nebulosis.* Fem.—*Capite fulvo, thorace fusco, cano quinquevittato.*

*Male*.—Head black, hoary behind and beneath, and thickly clothed with white hairs: eyes dark reddish: eyelets tawny: feelers tawny; first joint piceous, fourth black: palpi dull tawny, thickly clothed with long white hairs: sucker piceous: chest black; its sides and the scutcheon ferruginous; breast and hind chest gray: abdomen reddish brown, clothed with yellow hairs, which are longer and thicker towards the base; along the hind border of each segment there is a tawny line, which on the disk is dilated into a slightly bifurcate spot of a paler hue: abdomen beneath piceous, tawny towards the base: legs reddish brown; knees and fore shanks, except

the tips of the latter, yellowish white: wings slightly gray; tips, fore borders and cross-veins clouded with brown; veins dark tawny, brown towards the tips; poisers bright tawny. Var.  $\beta$ .—Middle shanks yellowish white, with ferruginous tips. Fem.—Head dark tawny, with a paler line on each side between the eyes, clothed on the crown with black hairs: chest brown, with five hoary stripes; the middle stripe is short, and hardly extends beyond the middle of the disk; the outer stripes are irregular, and are connected by two short oblique lines with the inner pair. Length of the body 4 lines; of the wings 9 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*RHAGIO lincola*, *Fabr. Ent. Syst.* iv. 275, 17. *Meig. Klass. Zweif.* i. 307, m. *Sylvicola monachus*, *Harris, Ex.* 102, pl. 31, f. 9. *Atherix lincola*, *Fabr. Syst. Antl.* 74, 6. *Rhagio albifrons*, *Meig. Klass. Zweif.* i. 300, 6. *Leptis lineola*, *Fall. Dipt. Succ. Anthrac.* 12, 6. *Meig. Dipt.* ii. 94, 9. *Mac. Hist. Nat. Dipt.* i. 427, 8. *Ratz. Forst. Ins.* iii. 155. *Zett. Ins. Lapp.* 526, 3.

a. England.

*RHAGIO inutilis*, n. s., mas. et fem. *Fulvus, thorace fusco vittis tribus pallidis, abdominis segmentis maculis dorsalibus vittisque utrinque ventralibus piceis, fem. abdominis dorso immaculato, antennis pedibusque fulvis, alis fulvo subcinereis.*

*Male*.—Body tawny: eyes bronze colour: feelers and mouth tawny: chest pale dull brown, with three pale stripes: breast hoary: abdomen piceous at the tip, having a small piceous spot on the back of each segment, and a piceous stripe on each side beneath: legs tawny; feet ferruginous: wings slightly gray, with a tawny tinge along the fore borders; wing-ribs and veins ferruginous; brands none; poisers tawny. Fem.—Chest paler than that of the male: abdomen without spots on the back. Length of the body 3 lines; of the wings 6 lines.

a. England. From Mr. Walker's collection.

#### *LEPTIS, Fabricius.*

*LEPTIS ornata* (?), *Say, Journ. Acad. Phil.* 1822, 34, 1. *Amer. Ent. pl.* 13. *Wied. Auss. Zweif.* i. 221, 1. *Nigra, aureo-pilosa, pectore cinereo, abdomine ciliis flavo-albis fasciato, antennis tarsisque piceis, pedibus fulvis, alis limpidis,*

Body black, rather long and slender: head thickly clothed beneath with pale yellow hairs: mouth black: eyes red: feelers pi-



ceous, their bristles black: chest thickly clothed with golden hairs: breast gray, more thinly clothed with paler hairs: hind borders of the abdominal segments most thickly fringed with bright yellowish white hairs: legs tawny, long and slender; feet piceous, tawny at the base: wings colourless; brands dark tawny, very narrow; veins piceous, tawny at the base; poisers tawny. Length of the body 5 lines; of the wings 10 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

LEPTIS thoracica, *Fabr. Syst. Antl.* 70, 4. *Wied. Auss. Zweif.* i. 222, 2. *Chrysopita thoracica, Macq. Dipt. Exot.* ii. 1, 32, 1, *pl.* 3, *bis f.* 3.

a. Georgia. From Mr. Abbot's collection.

b. Delaware. Presented by E. Doubleday, Esq.

c. New York.

LEPTIS atrata, *Meig. Dipt.* ii. 99, 16. *Fall. Dipt. Succ. Anthrac.* 13, 8. *Zett. Ins. Lapp.* 526, 4. *Rhagio atratus, Fabr. Sp. Ins.* ii. 421, 11. *Ent. Syst.* iv. 276, 21. *Latr. Gen. Crust.* iv. 288. *Meig. Klass. Zweif.* i. 302, 11. *R. tomentosus, Fabr. Ent. Syst.* iv. 275, 16. *Meig. Klass. Zweif.* i. 306, 1. *Atherix atratus, Fabr. Syst. Antl.* 72, 1. *A. aurata, Fabr. Syst. Antl.* 73, 4. *A. tomentosa, Fabr. Syst. Antl.* 73, 5. *Musca atrata, Gmel. Ed. Syst. Nat.* v. 2866, 323. *Musca &c., Geoff. Ins.* ii. 534, 79. *Leptis atrata, Fall. Dipt. Succ. Anthrac.* 13, 8. *Chrysopila aurata, Macq. Dipt. Nord.* 1. *Hist. Nat. Dipt.* i. 429, 1. *Zett. Dipt. Succ.* i. 222, 1. *Loew, Prog.* 1840, 9. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 197, 1. *Blanch. Hist. Nat. Anim. Art.* 603.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

LEPTIS proxima, n. s., mas. *Atra, sericata, antennis femoribusque piceis, pedibus fulvis, alis limpidis.* Fem.—*Fusca, capite fulvo, abdomine nigro.*

*Male.*—Body black, velvet-like, thickly clothed with black hairs: eyes and eyelets red: feelers piceous, their tips and the mouth black: abdomen thinly clothed with black and yellow hairs: legs dull tawny; hips and thighs piceous: wings colourless; brands tawny, narrow; veins tawny, darker towards the tips; poisers very dark tawny, with piceous knobs. *Fem.*—Head dull tawny, clothed with yellow hairs: feelers black: chest and breast dark brown, also clothed with yellow hairs: abdomen attenuated at the tip, rather more thickly clothed with yellow hairs than that of the male, espe-

cially at the tip: wing-brands very pale. Length of the body 3—4 lines; of the wings 7—8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**LEPTIS** par, n. s. *Atra, aureo-pilosa, capite subtus pectoreque canis, antennis nigris, pedibus fulvis, alis limpidis.*

Head black, silvery in front, hoary behind and beneath, where it is clothed with white hairs: eyes red: feelers and mouth black: chest black, velvet-like, clothed with golden hairs, slightly ferruginous on each side: breast hoary: abdominal segments from the first to the fourth deep black, their hind borders clothed with shining pale yellow hairs; the following segments and the whole of the abdomen beneath dull black: legs tawny; feet darker towards the tips: wings colourless; brands brown, short; veins piceous, tawny towards the base and along the fore border; poisers tawny, with piceous knobs. Length of the body 4 lines; of the wings 8 lines.

a. North America. Presented by the Entomological Club.

**LEPTIS** simillima, n. s., fem. *Cinerea, thoracis disco fusco-cinereo vittato, abdomine nigro apice cinereo, antennis nigris, pedibus fulvis, femoribus cinereis, alis limpidis.*

Head gray with a dark tawny tinge, somewhat paler beneath, where it is clothed with white hairs: eyes red: feelers and mouth black: chest dark brown, velvet-like, with two gray stripes, which are connected by two oblique gray bands with the sides of the chest; the latter and the breast are also gray: scutcheon dark ferruginous: abdomen black, velvet-like, tapering to the tip, narrower than the chest and about twice its length; last four segments gray: legs tawny; hips brown; thighs dark gray: wings colourless, slightly tawny along the fore border; veins piceous; poisers tawny, with piceous knobs. Length of the body  $3\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

**LEPTIS** propinqua, n. s., mas. *L. simillima, mas.?* *Nigra, capite fusco, abdomine apice cinereo, antennis nigris apice fulvis, pedibus fulvis, femoribus piceis, alis limpidis.*

Body black and clothed with black hairs: head dark brown, clothed with black hairs beneath: feelers black; third joint dark tawny: abdomen clothed with yellow hairs at the base; two last segments gray: legs tawny; hips black; thighs dark piceous: wings colourless; veins and brands tawny, the latter narrow; poisers taw-

ny, with piceous knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*LEPTIS æqualis*, n. s. *Nigra, sericata, capite subtus fulvo, abdomine cinereo subfasciato, antennis femoribusque piceis, pedibus fulvis, alis limpidis.*

Body black, velvet-like, thinly clothed with tawny hairs: head beneath dark tawny and clothed with tawny hairs: feelers dark piceous: mouth black: eyes red: sutures of the abdominal segments slightly gray: legs tawny; hips and breast dark gray; thighs piceous, with tawny tips: wings colourless, slightly tawny along the fore borders; brands brown, short; veins piceous. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New Holland.

*LEPTIS bicolor*, *Fabr. Syst. Anth.* 71, 8. *Meig. Dipt.* ii. 102, 21, vi. 321. *L. auricollis*, *Hoffmansegg, Meig. Dipt.* ii. 103, 22. Var. (?) *L. oculata*, *Meig. Dipt.* vi. 322, 24. *L. luteola*, *Zett. Ins. Lapp.* 527, 6. *L. nubecula*, *Meig. Dipt.* vi. 321, 23. *Rhagio bicolor*, *Fabr. Ent. Syst.* iv. 274, 11. *Meig. Klass. Zweif.* i. 305, h. *Atherix oculata*, *Fabr. Syst. Anth.* 74, 7. *Chrysopila bicolor*, *Macq. Hist. Nat. Dipt.* i. 430, 4. *Loew, Prog.* 1840, 9, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 198, 3.

a. France.

b. ——— ? From Mr. Children's collection.

*LEPTIS quadrata*, *Say, Journ. Acad. Phil.* 1822, 33, 3. *Wied. Auss. Zweif.* i. 226, 11.

a. Trenton Falls. Presented by E. Doubleday, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

*LEPTIS reflexa*, n. s., mas. et fem. *Ferruginea, antennis pedibusque fulvis, alis basi fuscis.*

Body bright ferruginous, clothed with short hairs of the same colour: head beneath paler: eyes red, darker in front: mouth and feelers tawny, last joint of the latter black: breast and abdomen a little paler than the chest: legs tawny; tips of the feet darker: wings brown, especially along the fore border, for about half their length from the base, the hind border excepted; veins tawny; poisers pale tawny, with brown knobs. Allied to *L. quadrata* and to *L. nubeculosa*. *Fem.*—Abdomen tapering at the tip: wing-brands rather

small, darker brown than those of the male. Length of the body 3—4 lines; of the wings 6—7 lines.

Var.  $\beta$ . *Fem.*—Wings almost colourless.

Var.  $\gamma$ . *Fem.*—Chest with a very broad stripe in the middle, somewhat darker than the other stripes.

Var.  $\delta$ . *Fem.*—Wings colourless, excepting a broad brown band which extends from the fore border to the middle of the disk.

a. Ohio. Presented by the Entomological Club.

b. Nova Scotia. From Lieut. Redman's collection.

*LEPTIS fumipennis*, Say, *Journ. Acad. Phil.* 1822, 37, 6. *Wied. Auss. Zweif.* i. 227, 12.

a. Georgia. From Mr. Abbot's collection.

b. New York. Presented by the Entomological Club.

c. Trenton. Presented by E. Doubleday, Esq.

d. Nova Scotia. From Lieut. Redman's collection.

*LEPTIS basilaris*, Say, *Journ. Acad. Phil.* 1822, 36, 4. *Wied. Auss. Zweif.* i. 228, 16.

a. Georgia. From Mr. Abbot's collection.

*LEPTIS plumbea*, Say, *Journ. Acad. Phil.* 1822, 39, 10. *Wied. Auss. Zweif.* i. 228, 15.

a. New York. Presented by the Entomological Club.

*LEPTIS diadema*, Meig. *Dipt.* ii. 101, 19. *Curt. Brit. Ent.* 713.

*Rhagio diadema*, Fabr. *Sp. Ins.* ii. 421, 10. *Ent. Syst.* iv.

276, 20. Meig. *Klass. Zweif.* i. 302, 10. *R. aurea*, Meig.

*Klass. Zweif.* i. 302, 9. *Atherix diadema*, Fabr. *Syst. Antl.*

73, 2. *Musca diadema*, Gmel. *Ed. Syst. Nat.* v. 2866, 19.

*Schrank. Ins. Austr.* 898. *Musca &c.*, Geoff. *Ins.* ii. 535,

80. *Chrysopila diadema*, Macq. *Dipt. Nord.* 3. *Hist. Nat.*

*Dipt.* i. 429, 2.

a. England.

b. France.

c. Italy. From Dr. Leach's collection.

### ATHERIX, Latreille.

*ATHERIX Ibis*, Meig. *Dipt.* ii. 105, 1. *Curt. Brit. Ent.* i. 26.

*Macq. Hist. Nat. Dipt.* i. 431, 1. *Loew, Prog.* 1840, 10. *Gim.*

*Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 199, 1. *Guer. Icon. Regn.*

*Anim. Ins.* pl. 96, f. 2. *Rhagio Ibis*, Fabr. *Ent. Syst. Suppl.*

556. Meig. *Klass. Zweif.* i. 307, p. *Anthrax Titanus*, Fabr.

*Ent. Syst. Suppl.* 554. *Syst. Antl.* 126, 37. Meig. *Klass.*

*Zweif.* i. 211, *h.* t. 14, *f.* 30. *Leptis Ibis*, *Fabr. Syst. Antl.* 70, 5. *Schæff. Icon.* t. 107, *f.* 5, 6. *Atherix maculatus*, *Latr. Gen. Crust.* iv. 289. *Meig. Klass. Zweif.* i. 294, 1. *Sylvicola melancholia*, *Harris, Ex.* 103, *pl.* 31, 2, *f.* 1.

a. England.

b. France.

*ATHERIX variegata*, *Barnston's MSS.* *Fusca*, *capite pectore thoracisque vittis duabus cinereis, abdomine nigro fulvo fasciato, antennis nigris, pedibus fulvis, femoribus piceis, alis cinereis fusco variis.* *Fem.*—*Humeris fulvis, abdomine cinereo fasciato, femoribus fulvis.*

Most closely allied to *A. Ibis*, but differs slightly in the colour of the abdomen and of the wings. Head hoary and clothed with black hairs, which are most thick beneath; its appendages also black: chest brown and clothed with black hairs, adorned with two hoary stripes; its sides and the breast also gray and clothed with hoary hairs: abdomen black and clothed with black hairs; hind borders of the segments tawny, and, with the exception of the first segment, clothed with pale hairs; borders of the first segment all tawny, with the exception of the fore border and a notch in the middle (in *A. Ibis* it is all tawny excepting a triangular spot on the middle of the disk); second segment also tawny, excepting a triangular spot whose fore angle comes near to the hind angle of the notch in the preceding segment; in the third and fourth segments the hind border only is tawny; fifth and sixth segments black; seventh segment tawny: on the under-side all the segments are tawny, with black hind borders: legs tawny, clothed with short black hairs; hips and thighs mostly piceous, clothed with pale hairs; feet darker towards the tips: wings gray, varied with brown, especially at the base and along the fore border; they have not the slight tawny tint that prevails along the fore borders of the wings of *A. Ibis*, and differ especially from that species in the absence of the yellow brand which characterizes the latter; poisers tawny, with piceous knobs. *Var. β.*—Only the second, third and fourth segments of the abdomen have tawny hind borders, and these bands are slightly narrower in the middle of the disks. *Fem.*—Head hoary in front and around the eyes: shoulders tawny: abdomen black; hind borders of the segments gray (in *A. Ibis* they are broader and have a tawny tinge): legs dark tawny and clothed with short black hairs; hips and trochanters gray; feet darker towards the tips. Length of the body 3—4 lines; of the wings 8—10 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ATHERIX marginata*, Meig. Dipt. ii. 106, 2, pl. 15, f. 27, 28. Macq. Hist. Nat. Dipt. i. 432, 2. Zett. Dipt. Scand. i. 225, 2. Loew, Prog. 1840, 10. Gim. Bull. Soc. Imp. Nat. Mosc. 1847, 1, 199, 2. Bibio marginata, Fabr. Sp. Ins. ii. 413, 6. Ent. Syst. iv. 255, 4. Syst. Anil. 67, 5. Meig. Klass. Zweif. i. 216, d. Musca marginata, Gmel. Ed. Syst. Nat. v. 2829, 130. Stew. El. Nat. Hist. ii. 255.

a. England:

b. France.

*ATHERIX filia*, n. s., mas. *Cinerea, thoracis disco fusco vittis tribus cinereis, antennis cinereis, pedibus fulvis, femoribus nigris, alis cinereis fusco variis.*

Head hoary, clothed beneath with black hairs: eyes red: mouth black: feelers hoary, with black bristles: chest brown, with three gray stripes; sides and breast also gray: abdomen gray and clothed with pale hairs: legs black and clothed with short black hairs; shanks and feet tawny, with piceous tips: wings gray, varied with brown, which colour prevails most at the base and along the fore border, and is there of a darker colour than in the rest of the wing; brands yellow; veins piceous; poisers yellow, with dark brown knobs. Length of the body 2—2½ lines; of the wings 4½—5½ lines.

a. New York. Presented by the Entomological Club.

b. New York. Presented by E. Doubleday, Esq.

c. Trenton. Presented by E. Doubleday, Esq.

*ATHERIX crassicornis*, Hoffmannsegg, Panz. Faun. Germ. cv. 10. Latr. Gen. Crust. iv. 289. Meig. Dipt. ii. 108, 5. Macq. Hist. Nat. Dipt. i. 433, 6. Zett. Ins. Lapp. 528, 1. Leptis griseola, Fall. Dipt. Succ. Anthrac. 12, 7.

a. England.

b. France.

*ATHERIX pilosa*, Megerle, Meig. Dipt. ii. 109, 7.

a. South of France. Presented by the Entomological Club.

*ATHERIX picea*, n. s. *Picea, capite nigro, abdomine ferrugineo fasciato, apice subtus fulvo, antennis fulvis, pedibus flavis, alis limpidis.*

Head black, clothed with pale hairs beneath: mouth and feelers tawny: eyes red: chest dark piceous, thinly clothed with pale yellow hairs; its sides somewhat ferruginous: abdomen dark piceous, clothed with yellow hairs; hind borders of the segments ferruginous; three last segments dark tawny beneath: legs yellow: wings colour-

less; brands brown, short; veins piceous; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. Italy. From Dr. Leach's collection.

*ATHERIX melæna*, *Hoffmansegg, Meig. Dipt.* ii. 109, 6.

a. France?

### TYOLINA.

*TYOLINA tristis*.

a. England.

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### Fam. V. XYLOTOMÆ.

#### THEREVA, Latreille.

##### a. *Hypostoma pubescent*.

*THEREVA nobilitata*, *Latr. Gen. Crust.* iv. 296. *Meig. Dipt.* ii. 116, 1. *Macq. Hist. Nat. Dipt.* i. 418, 2. *Zett. Ins. Lapp.* 522, 1. *Dipt. Suec.* i. 203, 1. *Loew, Prog.* 1840, 10. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 200, 1. *Biblio nobilitata*, *Fabr. Sp. Ins.* ii. 413, 7. *Ent. Syst.* iv. 255, 5. *Syst. Antl.* 67, 6. *Meig. Klass. Zweif.* i. 213, 1. *Musca nobilis*, *Gmel. Ed. Syst. Nat.* v. 2829, 131. *Nemotilus hirtus*, *Deg. Ini.* vi. 76, 9. *Biblio plebeia*, *Fall. Dipt. Suec. Anthrac.* 4, 1.

a. South of France.

*THEREVA plebeia*, *Latr. Gen. Crust.* iv. 296. *Cons. Gén.* 443. *Meig. Dipt.* ii. 117, 3. *Latr. Cuv. Regne Anim. nouv. edit.* v. 468. *Macq. Hist. Nat. Dipt.* i. 418, 3. *Zett. Ins. Lapp.* 522, 2. *Dipt. Suec.* i. 204, 2. *Eichw. Zool. Spec.* ii. 185. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 201, 3. *Blanch. Hist. Nat. Anim. Art.* 604. *Musca plebeia*, *Linn. Syst. Nat.* ii. 979. *Faun. Suec.* 1779. *Gmel. Ed. Syst. Nat.* v. 2829, 1. *Stew. El.* ii. 255. *Turt.* iii. 635. *Frisch. Ins.* i. 34, t. 9. *Scheff. Gen. Mouch.* t. 33, f. 1. *Tabanus &c.* ? *Geoff. Ins.* ii. 462, 6. *Nemotelus fasciatus*, *Deg. Ins.* vi. 76, 8. *Biblio plebeia*, *Fabr. Sp. Ins.* ii. 413, 5. *Ent. Syst.* iv. 254, 2. *Syst. Antl.* 66, 3. *B. strigata*, *Fabr. Ent. Syst.* iv. 255, 7. *Syst. Antl.* 67, 8. *B. rustica*, *Fall. Dipt. Suec. Anthrac.* 4, 2. *B. fasciata*, *Meig. Klass. Zweif.* i. 214, 3. *Sylvicola monos*, *Harris, Ex.* 103, pl. 31, 2, f. 3. *Mydas plebeia*, *Lam. Anim. sans Vert.* iii. 426, 2.

a. England.

b. South of France. Presented by F. Walker, Esq.

c. France.

*THEREVA tæniata*, Meig. *Dipt.* ii. 120, 6. Loew, *Prog.* 1840, 10.  
*Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 202, 5.

a. England.

b. France.

*THEREVA anilis*, Meig. *Dipt.* ii. 125, 16. Macq. *Hist. Nat. Ins.* i. 420, 10. Loew, *Prog.* 1840. Zett. *Ins. Lapp.* 524, 8. *Dipt. Scand.* i. 209, 9. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847. xx. 1, 204, 12. *Musco anilis*, Linn. *Faun. Suec.* 1791. Gmel. *Ed. Syst. Nat.* v. 2832, 20. *Bibio flavipes*, Fabr. *Ent. Syst.* iv. 254, 3. *Syst. Antl.* 67, 4. Meig. *Klass. Zweif.* i. 215, 6. *B. anilis*, Panz. *Faun. Germ.* v. 23. Meig. *Klass. Zweif.* i. 215, 6. Fall. *Dipt. Suec. Anthrac.* 5, 3. *B. sordida*, Panz. *Faun. Germ.* xcviij, 19.

a. England.

b. France.

*THEREVA annulata*, Meig. *Dipt.* ii. 126, 17. Loew, *Prog.* 1840, 4. Zett. *Dipt. Scand.* i. 210, 10. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847. xx. 1, 205, 13. *Bibio anilis*, Fabr. *Sp. Ins.* ii. 413, 8. *Ent. Syst.* iv. 255, 9. *Syst. Antl.* 68, 13. Schrank. *Faun. Boic.* iii. 2371. Meig. *Klass. Zweif.* i. 215, 6. *B. annulata*, Fabr. *Syst. Antl.* 68, 11. Fall. *Dipt. Suec. Anthrac.* 5, 4. *Thereva anilis*, Latr. *Gen. Crust.* iv. 296.

a. France.

*THEREVA cincta*, Meig. *Dipt.* ii. 117, 2.

a. Ukraine. Presented by Dr. Dowlér.

*THEREVA varia*, n. s., fem. *Fusca, subtus cinerea, abdomine fulvo fasciis canis, antennis canis apice nigris, pedibus fulvis, femorum tibiæ tarsorumque apicibus nigris, alis subcinereis.*

Head black and clothed with black hairs, hoary with a tawny tinge in front, thickly clothed with white hairs beneath: feelers hoary with a very slight tawny tinge, black at the tips: mouth black, and clothed with black hairs: chest brown, with yellow hairs: breast gray, with hairs of the same colour: abdomen very dark tawny, covered with a white bloom, and clothed with white hairs: fore borders of the segments hoary; under-side gray, with a tawny spot on each side of every segment: legs tawny, clothed sparingly with black bristles; tips of the thighs, of the shanks and of the joints of the feet black: wings slightly gray, darker and with a brownish tinge along the fore border; brands brown; veins piceous; cross-



veins bordered with brown; poisers tawny, with piceous knobs. Length of the body 3 lines; of the wings 6 lines.

a. Florida. Presented by E. Doubleday, Esq.

*THEREVA germana*, n. s. *Fusca, capite cinereo subtus albo, thoracis villis duabus lateribus pectoreque cinereis, abdomine nigro-argenteo micante, antennis nigris, pedibus fulvis, alis subcinereis.*

Head gray behind, white in front and beneath, when it is thickly clothed with white hairs: eyes red: feelers and mouth black, the former clothed with black bristles, the latter with white hairs: chest dark brown, with two slender gray stripes; its sides and the breast also gray, and the latter thickly clothed with white hairs: abdomen black, covered with silvery glance; hind border of each segment clothed with yellowish white hairs: hips gray, clothed with white hairs: thighs and shanks tawny, armed with black bristles; feet darker, clothed with black hairs, tips of the joints black: wings slightly gray; brands brown; veins piceous, slightly bordered with brown in the disk of the wing; a black dot just above the cross-veins near the tip of the wing; poisers ferruginous, with piceous knobs. Length of the body 3 lines; of the wings 6 lines.

Var.  $\beta$ . Tips of thighs and of shanks darker: wing-veins not bordered with brown.

a. Florida. Presented by E. Doubleday, Esq.

*THEREVA vicina*, n. s., mas. *Fusca aut nigra, capite nigro, abdomine cinereo fasciis fulvis apice nigro, antennis nigris, pedibus cinereis, tibiis fulvis, tibiis anticis tarsisque piceis, tarsis posterioribus basi nonnunquam fulvis alis limpidis.*

Head black, with a few black bristles above, thickly clothed with white hairs behind and beneath: eyes red: feelers and mouth black, thinly clothed with short black hairs: chest and breast brown, the former clothed with gray hairs and black bristles, the latter with white hairs: abdomen dark gray, clothed with hoary hairs; hind border of each segment tawny; last segment black, shining: hips and thighs gray, clothed with white hairs; shanks tawny, darker at the tips; feet and fore shanks piceous: wings colourless: brands brown and narrow; veins piceous; poisers piceous, with ferruginous knobs. Length of the body  $3\frac{1}{2}$ —4 lines; of the wings  $6\frac{1}{2}$ —7 lines.

Var.  $\beta$ . Chest and breast black: hind borders of only the second and the third abdominal segments tawny; four hinder feet tawny at the base.

a. Nova Scotia. From Lieut. Redman's collection.

*THEREVA conspicua*, n. s., mas. *Fusca, capite fulvo subtus cano, thorace fulvo bivittato, pectore cinereo, abdomine nigro albo trimaculato, pedibus cinereis, tibiis fulvis, tarsis piceis, alis subcinereis.*

Head tawny above, white in front, hoary behind and beneath, where it is clothed with white hairs; there are a few black bristles behind the eyes which are red: feelers gray: the first joint clothed with black hairs: chest dark brown, with two tawny stripes; the sides hoary: breast gray: abdomen black, shining, thinly clothed with short black hairs; there is a large triangular white spot on the hind border of each of the segments from the first to the third; the first is narrower than the two other spots, and the second is larger than the third, and they are all clothed with white hairs: legs gray; shanks tawny; feet piceous; wings slightly gray; brands brown; veins piceous, very slightly bordered with brown; poisers dark ferruginous, their knobs piceous from the base to the middle, pale yellow thence to the tips. Length of the body 4 lines; of the wings 8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*THEREVA nervosa*, n. s., mas. *Niger, abdomine piceo basi subtus ferrugineo, antennis pedibusque fulvis, femoribus cinereis, alis subcinereis, venis fusco marginatis.*

Head and chest black: head clothed with black hairs above, and more thickly with white hairs beneath: feelers tawny; first joint very long and thick, and clothed with long black hairs: breast thinly clothed with long white hairs: abdomen piceous, ferruginous beneath towards the base: legs thinly clothed with black bristles and short black hairs; hips and thighs gray; shanks and feet tawny; tips of the feet-joints piceous: wings slightly gray, especially at the tips and along the fore borders; brands and veins brown; cross-veins bordered with the same colour; poisers tawny, with brown knobs. Length of the body 4 lines; of the wings 8 lines.

a. Georgia. From Mt. Abbot's collection.

*THEREVA plagiata*, Harris, Cat. Ins. Massachusetts. *Cinerea, capite subtus pectoreque albis, abdomine nigro albo trifasciato, basi subtusque cano, antennis nigris, pedibus canis, alis cinereis.*

Body gray: head in front and breast white: eyes, feelers, and mouth black: abdomen black, hoary at the base and beneath, and having three white bands on the back; the first and the second are narrow, and traverse the hind borders of the first and second segments; the third occupies the hind border of the third and nearly the whole of the fourth segment; tip of the abdomen also white: legs hoary; hips white: wings gray, with a slight brown tinge along

the fore borders; wing-ribs and veins piceous; poisers yellow. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. Massachusetts. Presented by the Entomological Club.

*THEREVA cylindrica*, n. s., mas. *Canis, angusta, capite pectoreque albis thorace flavo-fusco univittato alboque bivittato, abdomine fusco argenteo micante fuscis fulvis albo ciliatis, pedibus cinereis alis subcinereis.*

Body long and narrow: head white, hoary behind, with a few black bristles along the hind borders of the eyes, clothed beneath with white hairs: eyes green and red: feelers black; first joint clothed with black hairs; second joint and base of the third tawny: mouth piceous: chest hoary, clothed with hoary down, and with a few black bristles on each side, where there is a white stripe, and it has also a broad yellowish brown stripe in the middle: breast white and clothed with white hairs: abdomen brown, covered with silvery glance, yellowish brown towards the tip, where it is clothed with dark tawny hairs; hind borders of the segments pale tawny and adorned with fringes of white hairs: legs gray; hips white: wings slightly gray, tawny along the fore border; brands brown and narrow: veins piceous, slightly bordered with dark tawny; poisers piceous, with dark tawny knobs. Length of the body 5 lines; of the wings 8 lines.

a. East Indies. From Archdeacon Clerk's collection.

*THEREVA senex*, n. s., fem. *Cinerea, capite pectoreque canis, abdomine fasciis ferrugineis, basi piceo, segmenti 2i. margine postico cano, antennis pedibusque cinereis, tibiis fulvis, tarsis piceis basi fulvis, alis limpidis.*

Head hoary, thickly clothed with white hairs, dark brown between the eyes, behind which there are two or three rows of black bristles: eyes and eyelets red: feelers gray; the first joint furnished with black bristles: mouth piceous: chest gray, thinly clothed with short yellow hairs, and having a few black bristles on each side; breast hoary, more thickly clothed with long white hairs: abdomen gray, clothed with short yellow hairs, which are most thick on the sides of the segments at the base; hind borders of the segments ferruginous; first segment piceous: hind border of second segment hoary: hips and thighs gray, the former thickly clothed with long white hairs, the latter more thinly furnished with short yellow hairs, and having also a few black short bristles: tips of thighs tawny; shanks tawny, with piceous tips, beset with very small black hairs and long black bristles: feet piceous, clothed with short black hairs, and having also black bristles at the tip of each joint; first and second joints tawny, excepting their tips: wings colourless; brands

tawny, very narrow; veins tawny along the fore borders, piceous along the hind borders; poisers tawny, piceous towards the tips of the stalks; knobs yellow. Length of the body 5 lines; of the wings 8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*THEREVA spilopectera*, Wied. *Anal. Entom.* 20, 3. *Auss. Zweif.* i. 234, 10.

a. Tunis. From Mr. Fraser's collection.

*THEREVA pictipennis*, Wied. *Dipt. Exot.* i. 113, 6. *Auss. Zweif.* i. 235, 11.

a. Georgia. From Mr. Abbot's collection.

*THEREVA tricolor*, n. s., fem. *Fulva, capite pectoreque albis, abdomine cano nigro fasciato, antennis cinereis, pedibus canis, tibiis fulvis, tarsis piceis, alis limpidis.*

Head white, pale tawny between the eyes, having a few black bristles above, and more thickly clothed beneath with white hairs: eyes, feelers, and mouth gray: chest tawny, which colour passes into gray and thence into hoary on each side; it is very thinly clothed with short black hairs, and has a few long black bristles on each side; there are five very narrow and indistinct brown stripes on the back: breast white and clothed with white hairs: abdomen hoary, clothed with white hairs, almost white beneath; every segment with a large black band, whose hind border is convex, and occupies nearly the whole of the middle of the segment: hips and thighs hoary, and clothed with white down, the former having also a few long black bristles; shanks tawny, with piceous tips, furnished with long black bristles; feet piceous, beset with short stout black hairs and long black bristles; first joint tawny till near the tip: wings quite colourless; fore border beset with a row of very small black bristles; veins and poisers tawny, the latter somewhat brown at the base of the knobs. Length of the body 3 lines; of the wings 6 lines.

a. New Holland. Presented by J. Hunter, Esq.

*THEREVA conformis*, n. s., fem. *Fulvo-cinerea, capite albo, thorace vittis tribus fuscis, lateribus pectoreque canis, abdomine fusco, cinereo et flavo fasciato fulvoque maculato, antennis nigris, pedibus fulvis, femorum vittis tarsisque piceis, alis fulvis.*

This species and *T. concolor* are quite distinct from *T. misella*. (*Ent. Mag.* ii. 472). Head almost white, tawny-gray between the

eyes, thickly clothed with black hairs above, and more thinly with white hairs beneath: mouth and feelers black: palpi tawny: eyes red: chest-tawny gray, with a few black bristles on each side, having also three indistinct brown stripes on the back; breast and sides of the chest hoary: abdomen brown above, and thinly clothed with yellow hairs: first segment gray; the following segments having each a gray band along the hind border, which is yellow, these bands are widened on the sides; there is a tawny spot on the side of each segment, and the segments beneath are tawny, with yellow hind borders: legs tawny; hips and trochanters gray, the former furnished with yellow hairs and long black bristles; thighs beset with yellow hairs and short black bristles, and having each a piceous stripe along the upper side; shanks and feet furnished with long and short black bristles, the latter are piceous: wings tawny, especially at the base and along the fore border; brands darker tawny; veins piceous; poisers tawny, their knobs mostly brown. Length of the body 4 lines; of the wings 8 lines.

a. New Holland. Presented by the Haslar Hospital.

*THEREVA concolor*, n. s., fem. *Fulva, capite subtus flavo-albo, thorace fusco sexvittato, pectore abdomineque cinereis, antennis piceis, basi pedibusque fulvis, alis subcinereis.*

Head tawny, clothed with black hairs, yellowish white and clothed with white hairs beneath: mouth piceous: eyes red: feelers piceous; first joint tawny, covered with black bristles: chest tawny, with six very indistinct narrow brown stripes, clothed with short black hairs, and having a few black bristles on each side: breast gray, and clothed with white hairs: abdomen gray, with a tawny tinge, and clothed with white hairs; hind borders of the segments hoary: legs tawny; hips gray, with short white and black bristles; thighs clothed with short black and white hairs, and armed with one or two black bristles near their tips; shanks darker than the thighs, furnished with black bristles; feet still darker; first joint beset with short black bristles, and having two longer bristles at its tip; following joints clothed with black hairs and with a very few black bristles: wings slightly gray, somewhat tawny at the base and along the fore border; veins and poisers tawny. Length of the body 5 lines; of the wings 10 lines.

a. New Holland. From Mr. Lambert's collection.

b. *Hypostoma* almost naked.

*THEREVA imberbis*, Meig. *Dipt.* ii. 128, 20. *Zett. Ins. Lapp.* 524, 8. *Bibio imberbis*, Fall. *Dipt. Suec. Anthrac.* 5, 5. *Platyper.* 11, 5. *Psilocephala imberbis*, Zett. *Dipt. Scand.* i. 212, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847. xx. 1, 208, 3.

## a. France.

*THEREVA singula*, n. s. (n. g. ?) fem. *Purpurea, capite fulvo, abdomine viridi-cyaneo, pedibus nigris, tarsis flavis, alis flavis, apice fuscis.*

Head tawny, piceous above between the eyes, which are red : mouth and feelers bright tawny ; first and second joints of the latter short ; third joint longer, compressed, nearly oval ; fourth joint lanceolate, small, slightly curved : chest and breast bright purple, smooth, shining, thinly clothed with short black hairs, and having a few black bristles on each side : abdomen blue, smooth, shining, with a green tint here and there, sparingly furnished with black hairs, which are most thick towards the tip ; the seven or eight segments successively decrease in length from the base to the tip ; first segment tinged with purple : legs black ; thighs and shanks clothed with short black hairs, and the latter also beset with black bristles ; knees tawny ; feet yellow, furnished with short tawny hairs and longer tawny bristles : wings yellow from the base to the middle, brown thence to the tips ; veins agreeing in colour with the part of the wing through which they pass ; poisers yellow. Length of the body 4 lines ; of the wings 9 lines.

The feelers differ from those of the other species of the genus ; the abdomen is convex, and the seventh apical areolet is open. Allied to *Dasyomma* ? *Macq. Dipt. Exot.* ii. 1, 31, 3.

## a. Western Australia. From Mr. Clifton's collection.

*CHIROMYZA*, Wiedemann.

*CHIROMYZA vittata*, Wied. *Nov. Dipt. Gen.* 20, f. 8. *Dipt. Exot.* i. 114, 1. *Auss. Zweif.* i. 237, 1. *Macq. Hist. Nat. Dipt.* i. 422, 1, pl. 10, f. 10. *Jenson, Bull. Soc. Imp. Nat. Mosc.* iv. 337. *Blanch. Hist. Nat. Anim. Art.* 604. *Guer. Icon. Rég.* *Anim. Ins.* pl. 97, f. 7.

## a. Brazil. From Mr. Children's collection.

## Fam. VI. MYDASII.

MYDAS, *Fabricius*.

## Div. I.

MYDAS giganteus, *Thumb. Act. Holm.* 1818, 246, f. 9. *Wied. Dipt. Exot.* i. 116, 1. *Auss. Zweif.* i. 239, *Mon. Mid.* pl. 52, f. 1. *Macq. Hist. Nat. Dipt.* i. 274, 1. *Westwood, Arc. Ent.* 50, 2. *Blanch. Hist. Nat. Anim. Art.* 578, pl. 3, f. 1.

a. Brazil.

MYDAS dives, *Westw. Arc. Ent.* 50, 3, pl. 13, f. 1.

a. Brazil. From Mr. Walker's collection.

MYDAS iopterus, *Wied. Auss. Zweif.* i. 241, 4. *Macq. Hist. Nat. Dipt.* i. 274, 4. *Westw. Arc. Ent.* 52.

a. St. John's Bluff, Florida. Presented by E. Doubleday, Esq.

b. Massachusetts. From Prof. Sheppard's collection.

MYDAS filatus, *Fabr. Ent. Syst.* iv. 252, 1. *Syst. Antl.* 60, 1. *Latr. Hist. Nat. Crust.* xiv. 338, *Gen. Crust.* iv. 294. *Dict. d'Hist. Nat.* xxiv. 192, 548. *Dumeril, Cons. Gén.* t. 48, f. 8. *Wied. Dipt. Exot.* i. 116, 2. *Auss. Zweif.* i. 240, 3. *Lam. Anim. sans Vertéb.* iii. 426, 1. *Biblio filata, Fabr. Mant. Ins.* ii. 328, 1. *Nemotelus asiloides, Deg. Ins.* vi. 204, 2. t. 29, f. 6. *Drury. Ins.* i. t. 44, f. 1.

a. North America.

MYDAS pachygaster, *Westw. Arc. Ent.* 53, 24, pl. 13, f. 4.

a. Georgia?

MYDAS notospilus, *Wied. Auss. Zweif.* i. 244, 10. *Mon. Mid.* pl. 54, f. 20. *Walk. Linn. Trans.* xvii. 339. *Westw. Arc. Ent.* 54, 36.

a. Brazil. Presented by the Entomological Club.

MYDAS parvulus, *Westw. Arc. Ent.* 53, 28, pl. 13, f. 6.

a. Florida. Presented by E. Doubleday, Esq.

## Div. II.

MYDAS stenogaster, *Westw. Arc. Ent.* 53, 31, pl. 14, f. 3.

a. New Holland. Presented by the Haslar Hospital.

MYDAS bicolor, *Westw. Arc. Ent.* 53, 32, pl. 14, f. 4.

a. Swan River. From Mr. Turner's collection.

*MYDAS viduatus*, var.? *Westw. Lond. and Edin. Phil. Mag. 3rd series*, vi. 281. April 1835. *Arc. Ent.* 52, 22, pl. 14, f. 2.

a. New Holland?

### DIV. III.

*MYDAS clavigera*, n. s. *Niger, fronte ferrugineo, scutelloque fulvo, abdomine supra flavo sexmaculato, subtus flavo trifusciato, antennis nigris, pedibus alisque fulvis.*

This species seems to be nearly allied to *M. sordidus*, *Westwood, Trans. Ent. Soc. London*, v. pt. 4, 89, pl. 13, f. 3., but differs in some respects from the description there given. Body black: head piceous, clothed with yellow hairs, ferruginous in front: eyes black: mouth tawny: feelers black, as long as the chest; first joint ferruginous; second joint very long; third joint dilated: chest thinly clothed with yellow hairs; scutcheon tawny: abdomen piceous towards the tip, where it is clothed with yellow hairs; segments from the first to the third with broad yellow bands, which are entire beneath, but interrupted on the back and on each side: legs tawny: hind thighs ferruginous, yellow towards the base, armed beneath with numerous black spines; hind shanks also yellow towards the base: wings tawny; wing-ribs and veins ferruginous; poisers yellow, their knobs piceous above. Length of the body 9—10 lines; of the wings 15—16 lines.

a. New Holland. From Mr. Lambert's collection.

*MYDAS incipiens*, n. s. *Fulva, thorace nigro trivittato, antennis nigris, capite pedibusque ferrugineis, alis flavo-fuscis.*

Head and mouth ferruginous: eyes and feelers black: chest tawny, with three broad black stripes: breast tawny: abdomen wanting: legs ferruginous; hind thighs armed with black spines: wings yellowish brown, tawny along the fore borders; wing-ribs and veins piceous; poisers brown. Length of the body 5 lines: of the wings 8 lines.

a. New Holland? Presented by the Entomological Club.

### APIOCERA, *Westwood.*

*APIOCERA mœrens*, *Westw. Arc. Ent.* 56, pl. 14, f. 6. *A. asilica*, var.? *Westw. Lond. and Edin. Phil. Mag.* vi. 449, 6, June, 1835. *A. fuscicollis*, var.? *Westw. do. do.* 2.

a. New Holland.





# LIST OF DIPTERA.

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## PART II.

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### Sub-order I.—PROBOSCIDEÆ.

#### Fam. VII. BOMBYLIARII.

##### NEMESTRINA, *Wiedemann.*

NEMESTRINA longirostris, *Wied. Zool. Mag.* iii. 13, 17. *Dipt. Exot.* i. 156, 4. *Auss. Zweif.* i. 248, 3. *Macq. Hist. Nat. Dipt.* i. 372. *Guer. Icon. Regn. Anim. Ins.* pl. 95, f. 7. *Mægistorhynchus longirostris*, *Macq. Dipt. Exot.* ii. 1, 14, 1, pl. 1, f. 3.

a. Cape of Good Hope. From Mr. Children's collection.

b. Cape of Good Hope. From Mr. Walker's collection.

##### TRICHOPHTHALMA, *Westwood.*

TRICHOPHTHALMA funesta, n. s., mas. et fem. *Rufo-fusca, canescens, antennis nigris, basi pedibusque ferrugineis, alis cinereis, basi costaque ferrugineis.*

Allied to *Rhyncocephalus*, (Newm. Ent. 220.) Feelers very short; first and second joints very small; third joint longer, more or less conical; fourth joint like a bristle, composed of six lesser joints: palpi with the first joint short; the second and third joints long: fore border wing-veins as usual: the other veins with their branches and cross-veins, forming fifteen areolets, of which eight or nine are open to the wing-borders, and six or seven are closed; five are long and narrow, and open to the fore border close to the tip;

one is open to the tip and to the hind border : the seventh joint is confined to the hind border, and is divided by a very short vein from the preceding ; the eighth joint communicates with the hind border and with the base of the wing, and is separated from the seventh by an areolet which is, more or less, open ; two of its sides form an angle on the hind border : body dull reddish brown, slightly tinged with a hoary bloom, and thinly clothed with short black hairs ; under-side hoary, and thinly clothed with pale yellow hairs : head tawny above the insertion of the feelers ; hypostoma ferruginous : sucker black, much shorter than the chest ; the other parts of the mouth ferruginous : feelers black ; first and second joints ferruginous ; third joint conical, piceous at the base ; bristle nearly twice the length of all the preceding joints : eyes dark red, clothed with tawny down : a fringe of pale yellow hairs on the hind border of the chest, and another on the base of the abdomen, which in the male, is round at the tip, shorter than the chest, and rather broader than long ; that of the female has the four hindmost segments very small and narrow, and forming a short tail : legs ferruginous : wings gray, ferruginous at the base and along the fore borders, and slightly tinged with the same colour on the disks ; wing-ribs and fore border veins ferruginous ; the other veins black ; poisers tawny. Length of the body 7—9 lines ; of the wings 18—21 lines.

a. New Holland. From the Rev. J. Wenham's collection.

b. New Holland. From Mr. Argent's collection.

c. ——— ?

TRICHOPTHALMA AURORA, n. s., mas. et fem. *Fusca, pilis roseis vestita, thorace nigro-fusco univittato et bimaculato, abdomine ferrugineo vittis tribus nigro-fuscis, antennis fulvis rufo cinctis apice nigris, pedibus ferrugineis, alis limpidis.*

Body thickly clothed beneath with rosy hairs : head clothed with brown hairs above the insertion of the feelers, whose first and second joints are tawny ; the third joint is long-conical, red, black at the tip ; the fourth joint is black, and rather longer than all the preceding joints : mouth ferruginous ; sucker black, piceous at the base, a little shorter than the chest : eyes brown, thickly clothed with golden down : chest light brown, with a broad dark brown stripe on the middle, and two small oblong spots of the same colour on each side : a few brown hairs are mingled with the rosy fringe that adorns the sides of the chest and the scutcheon : abdomen tawny ; the back with three broad dark brown stripes, and on each side a fringe of rosy hairs, and some of the same colour on the hind borders of the segments : legs ferruginous : wings colourless ; wing-ribs and fore border veins ferruginous ; the other veins piceous ;

poisers tawny. Length of the body 6—8½ lines; of the wings 12—16 lines.

- a. New South Wales. From Mr. Pamplin's collection.
- b. New Holland. From Mr. Argent's collection.
- c. New Holland. From Mr. Lambert's collection.

*TRICHOPTHALMA leucophæa*, n. s. *Fusca, subtus alba, thorace fulvo univittato et albo bivittato, scutello utrinque albo, abdomine albo bivittato, antennis fulvis, pedibus ferrugineis, tarsis piceis, alis cinereis, ad costam fuscis.*

Body rich brown, white beneath: head white, thickly clothed beneath with white hairs; eyes piceous, thickly clothed with white down: sucker black, as long as the chest: feelers, hypostoma, and palpi tawny; the latter piceous at the tips: chest with a very slender tawny stripe in the middle, and two broader white stripes on each side; the inner white stripes are somewhat widened in the middle, whence two oblique bands of tawny hairs pass from them to the outer stripes, and join a fringe of the same colour on each side of the chest: a white semicircular band on each side of the scutcheon: breast thickly clothed with white hairs: abdomen with two white stripes, which are somewhat irregular in outline, and slightly widened on the fore borders of the segments: legs ferruginous, clothed with black hairs; thighs also clothed with white hairs; feet piceous: wings gray, slightly brown in front on half the breadth and on two-thirds of the length, whence to the tips the fore borders only are brown; wing-ribs and fore border veins ferruginous; the other veins black; poisers tawny. Length of the body 6 lines; of the wings 14 lines.

- a. Western Australia. From Mr. Clifton's collection.

*TRICHOPTHALMA degener*, n. s., mas. *Fusca, subtus alba, thorace fulvo univittato et albo bivittato, abdomine albo bivittato, lateribus flavo-fuscis, antennis fulvis piceo cinctis apice nigris, pedibus ferrugineis, alis subcinereis.*

Body rich brown, white beneath: head white, thickly clothed beneath with white hairs: eyes red, thickly clothed with white down: sucker black, as long as three-fourths of the body; palpi ferruginous; third joint piceous at the tip: feelers tawny; third joint piceous, short-conical; bristle black: chest like that of *H. leucophæa*, but having only a tuft of tawny hairs on each side; scutcheon dark ferruginous, with no white band: breast thickly clothed with white hairs: abdomen yellowish brown on each side, and having on the back two broad white stripes, which are more irregular than in the preceding species, and diverge along the fore borders of the segments

to the sides of the abdomen : legs ferruginous : wings slightly gray ; wing-ribs and fore border veins dark ferruginous ; the other veins black ; poisers tawny. Length of the body 6 lines ; of the wings 12 lines.

a. Western Australia. From Mr. Clifton's collection.

*TRICHOPTHALMA albimacula*, n. s., mas. *Nigro-fusca, subtus alba, thorace albo bivittato, abdomine maculis albis bivittato, antennis ferrugineis piceo cinctis apice nigris, pedibus piceis, femoribus ferrugineis, alis subcinereis.*

Body very dark brown, white and thickly clothed with white hairs beneath : eyes piceous, thickly clothed with brown down : sucker black, dark ferruginous at the base, as long as the chest : feelers ferruginous, covered with a hoary bloom ; third joint piceous, somewhat spindle-shaped : chest with two white stripes : abdomen with two large nearly round white spots on each segment, with the exception of the three last, where the spots are very small : legs piceous ; thighs dark ferruginous, clothed with white hairs : wings slightly gray ; wing-ribs and fore border veins piceous ; the other veins black ; poisers tawny. Length of the body 5 lines ; of the wings 10 lines.

a. New Holland. From Mr. Argent's collection.

*TRICHOPTHALMA quadricolor*, n. s. *Cinerea, capite nigro, abdomine fasciis luteis, maculis fuscis univittato maculisque fulvis bivittato, antennis nigris basi ferrugineis, pedibus fulvis, alis cinereis, ad costam fuscis.*

Body white beneath : head black, shining, and covered with a hoary bloom above the feelers, thickly clothed beneath with white hairs ; hypostoma ferruginous, shining : sucker black, a little shorter than the chest ; palpi ferruginous : feelers black ; first joint ferruginous ; third joint conical ; bristle longer than all the preceding joints : eyes dark red, clothed with tawny or white down : chest gray, clothed with pale tawny hairs : breast thickly clothed with white hairs : abdomen bluish gray, with a stripe of dark brown spots in the middle, and one of tawny spots on each side ; there is also a brown spot on each side of the base ; hind borders of the segments luteous : legs tawny : wings gray ; fore borders till near their tips brown, which colour somewhat descends into the disks of the wings ; wing-ribs and fore border veins piceous ; the other veins black ; poisers tawny. Length of the body 5 lines ; of the wings 12 lines.

a. Van Dieman's Land. Presented by R. Butler, Esq.

**TRICHOPTHALMA** *fulva*, n. s., mas. *Fusca subtus alba*, thorace vittis duabus scutelloque lividis, abdomine fulvo-fusco univittato, antennis fulvis apice nigris, pedibus ferrugineis, femoribus fulvis, alis subcinereis, ad costam subfuscis.

Body white beneath: head clothed with white hairs above the insertion of the feelers, and more thickly covered beneath with pale yellow hairs: hypostoma tawny, and clothed with yellow hairs: eyes red, thickly clothed with white or tawny down: mouth black, a little shorter than the chest: palpi tawny, piceous at the tips: feelers tawny; third joint short-conical; bristle black, much longer than all the preceding joints: breast thickly clothed with white hairs; chest rich brown, with two livid stripes, and adorned with a fringe of golden hairs on each side and behind; scutcheon also livid: abdomen tawny, clothed with golden hairs, which form a fringe on each side; the broad dark brown stripe on the back is somewhat dilated on the sutures of the segments: legs ferruginous; hips and thighs tawny: wings slightly gray; fore borders till near their tips pale brown, which colour blends with the gray on the disks; wing-ribs and veins dark ferruginous; the other veins piceous; poisers tawny. Length of the body 4—5½ lines; of the wings 9—12 lines.

a. West Australia. From Mr. Clifton's collection.

#### TRICHOPSIDEA, Westwood.

**TRICHOPSIDEA** *æstracea*, Westw. *Trans. Ent. Soc. Lond.* ii. 152, pl. 14, f. 9. *Macq. Dipt. Exot.* ii. 1, 119, pl. 3, f. 1.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

#### COLAX, Wiedemann.

**COLAX** ? *variegatus*, Westwood, *Orient. Ent.* vi. 38, pl. 18, f. 5.

a. China. Presented by G. T. Lay, Esq.

#### LOMATIA, Meigen.

**LOMATIA** *Belzebul*, Curt. *Brit. Ent.* 2nd edit. ix. 1. *Macq. Hist. Nat. Dipt.* i. 411, 1, pl. 10, f. 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 209, 2. *Anthrax Belzebul*, Fabr. *Ent. Syst.* iv. 260, 14. *Syst. Antl.* 124, 28. *Meig. Klass. Zweif.* i. 201, 5. *Stygia Belzebul*, Meig. *Dipt.* ii. 139, 2.

a. South of France. From Mr. Walker's collection.

b. Albania. Presented by W. W. Saunders, Esq.

c. ——— ?

LOMATIA sabœa, *Macq. Hist. Nat. Dipt.* i. 412, 3. *Bibio sabœus. Fabr. Sp. Ins.* ii. 416, 8. *Anthrax sabœus, Fabr. Ent. Syst.* iv. 261, 19. *Syst. Antl.* 126, 36. *Musca sabœus, Gmel. Ed. Syst. Nat.* v. 2832, 139. *Stygia sabœa, Meig. Dipt.* ii. 138, 1.

a. France.

b. Italy. From Dr. Leach's collection.

c. Albania. From Mr. Walker's collection.

LOMATIA lateralis, *Curt. Brit. Ent. 2nd. edit.* ix. 2. *Macq. Hist. Nat. Dipt.* i. 411, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 209, 1. *Anthrax Belzebul, Panz. Faun. Germ.* xlv. 16. *Stygia lateralis, Meig. Dipt.* ii. 140, 3.

a. England.

b. South of France. Presented by the Entomological Club.

c. South of France. Presented by F. Walker, Esq.

d. Clermont, Auvergne. Presented by F. Walker, Esq.

e. France.

LOMATIA Hecate, *Meig. Dipt.* vi. 324, 4. *Macq. Hist. Nat. Dipt.* i. 412, 4.

a. Italy?

### ANTHRAX, *Fabricius.*

#### Group I.

ANTHRAX stymphalis, *Wied. Auss. Zweif.* i. 252, 1. *Div.* 1, pl. 3, f. 1.

a. Brazil.

ANTHRAX Phlegethon, n. s., *Div. I., Wied., fem. Picea, thorace quinque vittato, fascia pilosa antica, fasciculisque quatuor lateralibus rufis ornata, scutello ferrugineo, abdomine ciliis nigris fasciculisque albis lateralibus vario, antennis pedibusque nigris, alis piceis, cinereo uniguttatis subfulvoque vittatis, piceo uniguttatis.*

Body dark piceous, clothed with black hairs, with which gray hairs are mingled on the abdomen: head dark ferruginous on each side in front: feelers and mouth black, the former very hairy at the base: eyes dark red: chest covered with a dark brown bloom on which five stripes may be indistinctly traced, and having a band of bright red hairs on the fore border, and two tufts of the same on each side, one in front, the other behind: scutcheon very dark ferruginous: abdomen with a fringe of black hairs on each

side, and having a tuft of clear white hairs on each side of the fourth, fifth, seventh, and eighth segments: there is also a smaller tuft of whitish hairs on each side of the second segment; underside piceous, with a ferruginous tinge: legs black, clothed with black hairs and bristles: wings dark piceous, with a gray dot on the disk of each, before one-third of the length from the base, brown and having grayish tawny areolet-disks at the tip and along the hind borders for more than half the length from the tips; there is also a small round piceous spot very near the tip of each wing; wing-ribs and veins piceous, the latter black towards the tips; poisers piceous, with yellow tips. Length of the body 5 lines; of the wings 17 lines.

a. Brazil. Presented by Mrs. J. P. G. Smith.

ANTHRAX Harpyia, Wied. Auss. Zweif. i. 254, 3. Div. I.

a. Brazil.

ANTHRAX umbrifer, n. s., Div. I., Wied., fem. *Nigra, capite antice ferrugineo, abdomine basi rufo utrinque maculato, antennis pedibusque piceis, femoribus ferrugineis, tarsis nigris, antennis fuscis apice pallidioribus basi ferrugineis.*

Body black: head and chest clothed with bright tawny hairs: head ferruginous in front: eyes, mouth, and feelers piceous: abdomen clothed with ferruginous hairs on the hind borders of the segments, and having a large red spot on each side near the base: legs piceous, clothed with short black hairs; thighs dark ferruginous; feet black: wings dark brown, slightly paler along the fore borders and at the tips, ferruginous at the hind base; wing-ribs and veins piceous; poisers tawny. Length of the body 8 lines; of the wings 20 lines.

a. Philippine Islands. From Mr. Cuming's collection.

ANTHRAX Orcus, n. s., Div. I., Wied., fem. *Nigra, thoracis lateribus posticis rufo-fasciculatis, scutello ferrugineo, antennis nigris, pedibus piceis, alis cinereis, basi costaque nigro-fuscis.*

Body dull black, thinly clothed with ferruginous hairs and black bristles: feelers and mouth black: eyes dark red: scutcheon dark ferruginous: a tuft of red hairs on each side of the hind chest: legs dark piceous, beset with black bristles: wings blackish brown at the base and along the fore borders, and this colour passes into dark gray, which prevails at the tips and on the hind borders; the brown colour lingers on the cross-veins, and the gray begins on the disks of the areolets; wing-ribs and veins piceous; the latter black



towards the tips ; poisers also piceous. Length of the body 6 lines ; of the wings 16 lines.

a. Mexico. Presented by E. P. Coffin, Esq.

ANTHRAX Erebus, n. s., Div. I., Wied. *Nigra, scutello apice ferrugineo, pedibus nigris, femoribus piceis, alis nigro-fuscis cinereo vittatis, apice margineque postico cinereis.*

Head wanting: body black, clothed especially beneath with bright ferruginous hairs: scutcheon dark ferruginous along the hind border: legs black, clothed with ferruginous hairs and black bristles; thighs piceous: wings blackish brown, darkest at the base, gray at the tips and on the hind borders, and having some gray streaks on the areolets of the disks; wing-ribs, veins, and poisers piceous. Length of the body 4 lines; of the wings 12 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

ANTHRAX Cerberus, Fabr. *Ent. Syst.* iv. 256, 1. *Syst. Antl.* 118, 1. Wied. *Dipt. Exot.* i. 118, 1. *Auss. Zweif.* i. 253, 2. *Div.* 1. *Macq. Hist. Nat. Dipt.* i. 400, 1. *Exoprosopa Cerberus, Macq. Dipt. Exot.* ii. 1, 38, 6, *pl.* 16, *f.* 5.

a. Jamaica. From Mr. Gosse's collection.

b. Jamaica. Presented by E. Doubleday, Esq.

ANTHRAX Proserpina, Wied. *Auss. Zweif.* i. 257, 6. *Div.* 1. *Exoprosopa Proserpina, Macq. Dipt. Exot.* ii. 1, 38, 7.

a. Venezuela. From Mr. Dyson's collection.

b. ———?

ANTHRAX rufescens, n. s., Div. I., Wied. *Fusca, scutello rufo, pectore plerumque rufo, abdomine rufo-nigro univittato, pedibus rufis, tarsis piceis, alis fuscis maculis fasciaque iimpidis, apice limpidis fuscoque maculatis.*

Head wanting: chest brown, thinly clothed with short red hairs, and in front and on each side with longer bright tawny hairs; scutcheon red: breast mostly red, brown here and there, clothed with red hairs: abdomen red, thinly clothed with black hairs, and having a broad black interrupted stripe along the disk; there are also some tawny hairs on each side, and more at the base and beneath which is all red: legs red, furnished with black hairs; feet piceous: wings brown, darker in some parts than elsewhere, with two colourless dots on the disk, one nearly one-third of the length, the other more than two-thirds of the length from the base; a short broad irregular colourless band occupies part of the disk from the middle to the hind border, where it nearly surrounds a small brown

spot; tip of the wing colourless, with the exception of two brown spots; veins black; poisers piceous, with tawny tips. Length of the body 6 lines; of the wings 16 lines.

a. ——— ?

ANTHRAX Mara, n. s. Div. I. *Wied.*, mas. *Fusco-nigra*, abdomine cinereo-nigro, antennis pedibusque nigris, alis limpidis, basi costa fasciæque nigris.

Body narrow, dull black, with a slight brown tinge, and clothed with very few hairs: feelers and mouth black: eyes piceous: abdomen with a slight gray tinge: legs black: wings colourless, rather long, black at the base, and irregularly along the fore borders for full half the breadth unto two-thirds of the length, where the black part ends in a broad band; wing-ribs, veins, and poisers black. Length of the body 5 lines; of the wings 16 lines.

a. Congo. Presented by Sir J. Richardson.

ANTHRAX erythrocephala, *Fabr. Syst. Antl.* 118, 4. *Wied. Dipt. Exot.* i. 120, 3. *Auss. Zweif.* i. 255, 5. Div. 1. Stomoxys morio, *Fabr. Ent. Syst.* iv. 393, 1. *Syst. Antl.* 279, 1. Exoprosopa erythrocephala, *Macq. Dipt. Exot.* ii. 1, 37, 5, pl. 16, f. 4; pl. 19, f. 2,

Var. 1. Spot towards the base of the wing rather large.

Var. 2. Spot towards the base of the wing very small.

Var. 3. Band of the wing composed of four spots, the hindermost of moderate size.

Var. 4. Band of the wing composed of four spots, the hindermost very small.

Var. 5. Band of the wing composed of three spots, the hindermost wanting.

Var. 6. The foremost spot of the band of moderate size.

Var. 7. The foremost spot of the band extremely small.

Var. 8. The two middle spots of the band very large, the foremost spot subdivided, and seated much nearer the tip of the wing than in other varieties.

The transverse vein at the end of the first submarginal cell is more angular in this species and in *A. Mara* than in the preceding species.

a. Brazil. Presented by Mrs. J. P. G. Smith.

b. Para. Presented by Reginald Graham, Esq.

c. Brazil. From Mrs. Noel's collection.

d. Venezuela. From Mr. Dyson's collection.

e. Brazil. From Mr. Mornay's collection.

f. South America. From Mr. Warwick's collection.

## Group II.

**ANTHRAX dives**, n. s., Div. I., Wied., mas. *Fusca, pilis aureis vestita, capite nigro, scutello ferrugineo, abdomine nigro pedibus ferrugineis, tarsis nigris, alis fuscis apice limpidis.*

Head black, with an orange tawny tuft above between the eyes, which are dark red: there are also a few tawny hairs about the mouth, which like the feelers is black: chest brown, clothed with short brown and a few long black hairs, and adorned with a fringe of orange tawny along the fore border and along each side: breast brown, having also a fringe of orange tawny hairs along the fore border, and some hairs of this colour extend into the disk and mingle with the long black hairs that clothe it; scutcheon ferruginous, beset with stout black hairs, and on the hind border with long black bristles: abdomen black above, clothed especially towards the tip with brown hairs, and adorned along each side with orange tawny hairs; these last are most thick at the base, and there they slightly extend across the back; a band of white hairs occupies nearly the whole breadth of the third segment; the tip of the abdomen and the whole of the under-side are also clothed with orange tawny hairs: legs ferruginous, clothed with short black hairs; hips, knees and feet black: wings dark brown at the base and along the fore border till near the tip, the outline of this colour is regular and very oblique, and runs nearly to the base in a line almost parallel to the hind border; rest of the wing colourless; veins black; poisers piceous. Length of the body 8 lines; of the wings 18 lines.

a. Silhet. From Mr. Stainforth's collection.

b. Silhet. From Mr. Sowerby's collection.

**ANTHRAX ferrea**, n. s., Div. I., Wied., fem. *Cinerea, capite fulvo, thorace cano univittato fuscoque bivittato, scutello ferrugineo, pectore rufo-fulvo, abdomine ferrugineo maculis dorsalibus nigris, pedibus piccis femoribus ferrugineis, alis fulvis fusco nebulosis, apicibus marginibusque posticis limpidis.*

Head bright tawny, and clothed with short hairs of the same colour, black beneath: eyes bright red: mouth black: feelers tawny with black tips: chest gray, clothed with tawny hairs, and having a hoary stripe along the middle, and an indistinct brown stripe on each side; scutcheon ferruginous: breast reddish tawny, clothed with tawny hairs: abdomen ferruginous, clothed with tawny hairs, and having also some yellowish white hairs towards the base, where they most abound, and form a tuft on each side; each segment, excepting the two last, with a triangular black spot on the back; these spots decrease in size from the base onwards: legs piceous, clothed with

short stout black hairs; hips and thighs ferruginous, excepting the tips of the latter: wings tawny at the base and along the fore border, and thence downwards till near the middle of the disk, where the veins are clouded with brown; tips and hind borders colourless; veins brown; poisers tawny. Length of the body 6—7 lines; of the wings 14—16 lines.

a. Albania. Presented by W. W. Saunders, Esq.

b. Albania. Presented by E. Doubleday, Esq.

c. Albania. From Mr. Walker's collection.

ANTHRAX Tantalus, *Fabr. Ent. Syst.* iv. 260, 15. *Syst. Antl.* 124, 29. *Wied. Dipt. Exot.* i. 120, 2. *Auss. Zweif.* i. 255, 4. *Div.* 1. *Macy. Hist. Nat. Dipt.* i. 401, 2. *Exoprosopa Tantalus, Macy. Dipt. Exot.* ii. 1, 37, 4.

The fifth posterior areolet (reckoning from the base of the wing) is much more oblique at its base here than in the species of the first group.

Variations in the wing-veins:—

Var. 1. The fifth posterior cell is divided at the base.

Var. 2. The fifth posterior cell is divided in the middle.

Var. 3. The second submarginal cell is subdivided by a little forked cross-vein which forms an additional areolet.

Var. 4. The second submarginal cell has three little additional cross-veins united at one end, and forming two areolets.

a. Java.

b. China. Presented by G. T. Lay, Esq.

ANTHRAX bombylifomis, *Macleay, King's Narr. Surv. Coasts of Austral.* ii. 468, 187. *Wied. Auss. Zweif.* ii. 648, 74. *Div.* 1. *Ligyra bombylifomis, Newn. Entomologist.* 220.

In one specimen there is an additional cross-vein near the tip of each wing, which thus has five submarginal areolets.

a. New Holland. Presented by the Haslar Hospital.

b. New Holland. From Mr. Lambert's collection.

c. New Holland. From Mr. Walker's collection.

d. New Holland. From Mr. Children's collection.

ANTHRAX sylvanus? *Fabr. Ent. Syst.* iv. 261, 17. *Syst. Antl.* 125, 34. *Wied. Auss. Zweif.* i. 321, 94. *Div.* 1. *Bibio sylvanus, Fabr. Syst. Ent.* 758, 12. *Mant. Ins.* ii. 329, 18.

This species has five submarginal areolets. It does not well agree with the description of Fabricius, which more probably refers to *A. bombylifomis*, Macleay.

a. New Holland. Presented by J. Hunter, Esq.

*ANTHRAX funesta*, n. s., Div. I., Wied., mas. *Cinerea*, capite ferrugineo, abdomine nigro, pedibus nigris, alis cinereis, basi marginibusque anticis fulvis.

Head ferruginous above and in front, hoary behind, and clothed there with pale tawny or silvery down: eyes red: mouth and feelers black; first joint of the latter ferruginous: chest gray, clothed with tawny hairs, which are very thick in front and on each side; it has also a few long black bristles on each side above the base of the wing: breast gray, clothed with yellowish white hairs: abdomen black, clothed with black down, and having a fringe of short black hairs along each side; there is a thick tuft of shining yellowish white hairs on each side of the base, which is traversed by a band of similar hairs; this band is dilated on each side; there are a few white hairs on each side of the base of the third segment, and each of the three last segments has a broad interrupted band of shining white hairs; on the under-side the abdomen is clothed with white hairs from the base to the middle, and there is a broad band of the same near the tip: legs black, thinly clothed with short black hairs: wings deep gray, paler at the tips and along the hind border, bright tawny at the base and along the fore border, and slightly tinged with that colour along some veins in the disk; veins black; poisers piceous, with tawny knobs. Length of the body 8 lines; of the wings 19 lines.

It differs from *A. erythrocephala* in the upright fore side of the angle at the end of the first submarginal areolet.

a. Port Essington. Presented by the Earl of Derby.

b. New Holland. Presented by J. Hunter, Esq.

c. ———?

*ANTHRAX imbuta*, n. s. *Nigra*, pectore cano, scutello ferrugineo, abdomine nigro lateribus apice subtusque ferrugineo, pedibus ferrugineis, alis flavo-fuscis.

Allied to *A. fulvula*. Head wanting: chest dark brown, clothed with yellow hairs; scutcheon ferruginous: breast hoary, thickly clothed with yellow hairs: abdomen black, clothed with yellow hairs, ferruginous on each side, at the tip, and beneath: legs ferruginous, clothed with yellow hairs and black bristles; feet piceous: wings yellowish brown, rather long; the yellow colour prevailing most at the base, on the fore borders and along the margins of the veins; wing-ribs and veins ferruginous, the latter piceous towards the tips of the wings; poisers yellow. Length of the body 4 lines; of the wings 12 lines.

a. ———?

## Group III.

ANTHRAX heros, *Wied. Zool. Mag.* iii. 8, 11. *Dipt. Exot.* i. 126, 10. *Auss. Zweif.* i. 265, 15, *Div.* 3, *pl.* 3, *f.* 3. *Exoprosopa Heros*, *Macq. Dipt. Exot.* ii. 1, 46, 26.

Variation in the wing-veins. The fifth posterior cell has a little areolet at its base.

## a. Cape.

ANTHRAX Satyrus, *Fabr. Ent. Syst.* iv. 259, 13. *Wied. Auss. Zweif.* i. 322, 95, *Div.* 3. *Bibio Satyrus*, *Fabr. Syst. Ent.* 758, 10. *Mant. Ins.* ii. 329, 16.

## a. Georgia. From Mr. Abbot's collection.

ANTHRAX ignifer, n.s., *Div. I.*, *Wied.*, fem. *Picea*, *capite scutello abdomineque ferrugineis*, *thoracis lateribus albo subvittatis*, *abdomine fascia basi maculisque lateralibus albo pilosis*, *maculisque dorsalibus nigris*, *antennis pedibusque nigris*, *alis limpidis fusco trivittatis*.

Body dark piceous: head very dark ferruginous, somewhat paler beneath: feelers and mouth black: breast and sides and fore border of the chest clothed with red hairs: a band of white hairs around and beneath the wing-ribs interrupted towards the middle of the breast: scutcheon and abdomen dark ferruginous, the latter with a row of black spots on the back: a band of white hairs at the base and white spots on each side; the tendency of these spots to form bands may be indistinctly traced across the back; under-side thickly clothed with ferruginous hairs: legs black, pubescent: wings colourless, long, brown mingled with ferruginous colour along the fore border, and thence sending forth three broad brown bands towards the hind border; the first band at the base occupies the whole breadth of the wing; the second is oblique and irregular, and does not reach the hind border, but is joined to the first by two clouded longitudinal veins; the third is small, club-shaped and irregular, and also falls short of the hind border; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body  $7\frac{1}{2}$ —8 lines; of the wings 20—21 lines.

## a. Jamaica.

ANTHRAX insularis, n. s., *Div. I.*, *Wied.* *Picea*, *scutello abdomineque ferrugineis*, *abdomine maculis dorsalibus trigonis nigris*, *apice albo fasciato*, *pedibus ferrugineis*, *alis fuscis*, *vittis sublimpidis*, *incisura postica*, *guttis duabus*, *apiceque limpidis*.

Head wanting: chest and breast piceous: breast and sides of the chest clothed with ferruginous hairs; scutcheon and abdomen

ferruginous, shining; the latter with a row of triangular black spots along the back, one on each segment, and successively decreasing in size from the base to the tip; penultimate segment adorned with a white band: legs dark ferruginous; feet piceous: wings dark brown, colourless at the tips, and each having a large truncate-conical slightly oblique spot extending from the hind border to a little beyond the middle of the disk; two very small colourless spots near the base of the wing, and slight traces of pale marks on the disk along the borders of some of the veins; wing-ribs and veins ferruginous along the fore border, which also has a ferruginous tinge; the other veins and the poisers are black; the lower vein of the second submarginal areolet is angular. Length of the body 7 lines; of the wings 20 lines.

a. \*——— ?

ANTHRAX Lar, *Fabr. Ent. Syst.* iv. 257, 4. *Syst. Antl.* 110, 8.

*Wied. Dipt. Exot.* i. 127, 12. *Auss. Zweif.* i. 268, 18, *Div.* 3.

Bibio Lar, *Fabr. Sp. Ins.* ii. 414, 10. *Mant. Ins.* ii. 329, 11.

a. Bengal.

ANTHRAX seniculus, *Wied. Auss. Zweif.* i. 270, 20, *Div.* 3.

a. South Africa. Presented by Dr. A. Smith.

ANTHRAX Dux, *Wied. Auss. Zweif.* i. 269, 19, *Div.* 3.

a. South Africa. Presented by Dr. A. Smith.

ANTHRAX stellifer, n. s. *Nigra, thoracis lateribus albedo vittatis, scutello ferrugineo, abdomine macula media utrinque apiceque albis, pedibus piceis, alis nigris, guttis quatuor, apiceque limpidis.*

Head wanting: chest and breast black and thickly clothed with black hairs: a yellowish white stripe on each side of the chest, and a white tuft of hairs on each side of the scutcheon, which is ferruginous: abdomen black, with a white spot on each side at half its length; tip also white: legs piceous, pubescent: wings black, for nearly three-fourths of their length from the base, colourless thence to the tips; the black part comprises three or four little colourless spots; wing-ribs and veins black; poisers piceous. Length of the body 7 lines; of the wings 18 lines.

a. New Holland. Presented by the Haslar Hospital.

b. West Australia. From Mr. Clifton's collection.

ANTHRAX caffra, *Wied. Dipt. Exot.* i. 131, 17. *Auss. Zweif.* i. 275, 27, *Div.* 3.

a. South Africa. Presented by Dr. A. Smith.

*ANTHRAX Meigenii*, *Wied. Auss. Zweif.* i. 278, 31, *Div.* 3.

*a.* ——— ?

*ANTHRAX rufa*, *Wied. Zool. Mag.* ii. 41. *Dipt. Exot.* i. 140, 31.

*Auss. Zweif.* i. 291, 49, *Div.* 5.

*a.* South Africa. Presented by Dr. A. Smith.

*ANTHRAX capensis*, *Wied. Dipt. Exot.* i. 133, 20. *Auss. Zweif.* i.

279, 32, *Div.* 3. *Exoprosopa capensis*, *Macq. Dipt. Exot.* ii. 1, 48, 31.

*a.* South Africa. Presented by Dr. A. Smith.

*ANTHRAX Hessii*, *Wied. Zool. Mag.* ii. 2, 40. *Dipt. Exot.* i. 139,

29. *Auss. Zweif.* i. 289, 45, *Div.* 5.

*a.* South Africa. Presented by Dr. A. Smith.

*ANTHRAX maculipennis*, *Macq. Dipt. Exot.* ii. 1, 56, 4.

*a.* South Africa. Presented by Dr. A. Smith.

*ANTHRAX umbra*, n. s., *Div.* III., *Wied.*, fem. *Nigra, canescens, antennis nigris, pedibus piceis, alis cinereis, basi costaque fuscis, venis nonnullis transversis fusco nebulosis.*

Body dull black, covered with a hoary bloom, and clothed with gray-black and hoary hairs: feelers black, covered with gray down: eyes, mouth and legs piccous, the latter clothed with black hairs: wings dark gray, dark brown at the base and along the fore borders till near the tips, and especially on the margins of some of the cross-veins; wing-ribs and veins piccous, the latter black towards the tips; poisers tawny. Length of the body 6 lines; of the wings 16 lines.

*a.* ——— ? Presented by Captain Lord Byron.

*ANTHRAX tegminipennis*, *Say, Long's Exped. to St. Peter's River, App.* 371, 2. *Wied. Auss. Zweif.* i. 289, 46, *Div.* 5.

*a.* Nova Scotia. Presented by F. Walker, Esq.

*ANTHRAX marginicollis*, *G. R. Gray, Griff. transl. Cuv. Anim. Kingd.* xxxv. *Ins.* 2, pl. 125, f. 6. *Div.* 3, *Wied.*

*a.* ——— ?



**ANTHRAX undans**, n. s. *Nigra, thorace flavo ciliato fulvoque quinqu vittato, scutello, pectore, abdominis ventre fasciisque dorsalibus ferrugineis, abdomine pilis albis fasciato, lateribus rufescentibus, pedibus ferrugineis, tibiis anticis tarsisque piceis, alis limpidis vittâ undante fusca, costa flavo-fusca, vittisque sublimpidis varia.*

Head wanting: chest black, thinly clothed with yellow hairs, and having a thick fringe of the same in front and along the sides above the base of the wings; it is adorned with five tawny stripes, of which the middle one is shortened in front; scutcheon ferruginous: abdomen black, ferruginous and with a band of ferruginous hairs on the hind border of each segment, which has also a band of white hairs towards its fore border, and is reddish on each side: breast and under-side of abdomen ferruginous and clothed with yellow hairs: legs ferruginous; feet and fore shanks piceous: wings colourless, yellowish brown along the fore borders for almost three-fourths of the length; this colour includes some almost limpid streaks, and descends slightly into the disk of the wing by some of the veins; the latter join it to a rather darker serpentine mark, which borders the veins nearer to the hind border; wing-ribs and veins ferruginous; the latter piceous towards the tips; poisers tawny. Length of the body 7 lines; of the wings 16 lines.

a. ——— ?

**ANTHRAX Alexon**, n. s. *Ferruginea, capite thoracisque disco piceis, abdomine pilis albis fulvis piceisque vittato, antennis fulvis, pedibus ferrugineis, tarsis piceis, alis cinereo-fuscis, apicibus marginibusque posticis subcinereis fusco trimaculatis.*

Body ferruginous: head and chest piceous: head thickly covered with ferruginous down: eyes very dark red: feelers tawny: chest clothed with tawny hairs: breast with longer pale yellow hairs: scutcheon ferruginous: back of the abdomen clothed with tawny and white hairs, and along the hind borders of the segments with piceous hairs, and thereby banded: under-side rather paler and clothed with white hairs: legs ferruginous; thighs and shanks clothed with very short pale yellow hairs, and beset with black bristles; feet piceous, clothed beneath with short black bristles: wings brown, which colour passes into brownish gray towards the hind border near the base, and the disks of some of the areolets in the middle of the wing are also gray; the brown has likewise a very oblique branch, which becomes gray and irregular as it approaches the hind border, which, like the tips of the wings, is gray, with the following exceptions; a brown spot on the first, and sometimes ano-

ther on the second of the longitudinal veins, where their upward curve approaches the fore border; two brown spots on the cross-veins near the tip, one of them mostly on the brown part, from which it is distinguished by its darker colour; wing-ribs and veins ferruginous; poisers tawny. Length of the body 5 lines; of the wings 13 lines.

a. East Indies. From Archdeacon Clerk's collection.

Group IV., *Wied. Auss. Zweif. pl. 3, f. 4.*

ANTHRAX Pygmalion, *Fabr. Syst. Antl.* 124, 30. *Wied. Dipt. Exot.* i. 137, 26. *Auss. Zweif.* i. 285, 40. *Macq. Hist. Nat. Dipt.* i. 401, 3. *Exoprosopa varinervis*, *Macq. Dipt. Exot.* ii. 1, 41, 13, *pl. 17, f. 8.*

a. Tunis. From Mr. Fraser's collection.

*Variation in the wing-veins.*—The fifth areolet on the hind border, reckoning from the base of the wing, contains one lesser areolet in one wing, and two in the other.

Group. V.

ANTHRAX apicalis, *Wied. Dipt. Exot.* i. 126, 11. *Auss. Zweif.* i. 266, 16, *Div. 3.*

a. Cape.

ANTHRAX pennipes, *Wied. Dipt. Exot.* i. 129, 14. *Auss. Zweif.* i. 272, 23, *Div. 3.* *Exoprosopa pennipes*, *Macq. Dipt. Exot.* ii. 1, 49, 33.

a. ——— ?

Group VI.

ANTHRAX collaris, *Wied. Auss. Zweif.* i. 271, 21. *A. ruficollis*, var. *Saunders, Trans. Ent. Soc. Lond.* iii. 59, *pl. 5, f. 5.*

The specimen here described agrees more with the characters of *A. collaris* than with those of *A. ruficollis*.

Fem.—*Nigra, ciliis lateralibus nigris, capite pectoreque piceis, thorace pilis rufis anticè fasciato et utrinque fasciculato, abdominis segmento 3<sup>o</sup> albo utrinque fasciculato, antennis pedibusque nigris, alis nigro-fuscis, incisurâ maculâ vittâque limpidis, apicem versus ferrugineo-fuscis.*

Body black, with a few short gray hairs on the back: head piceous, with a slight gray bloom in front and behind: mouth ferru-

ginous ; sucker and feelers black : eyes red : chest adorned in front with a band of bright red hairs, and having a tuft of the same on each side : breast piceous, with a hoary bloom : a fringe of black hairs on each side of the chest and of the abdomen ; the back of the latter adorned with a tuft of white hairs on each side of the third segment : legs black, clothed with black hairs and bristles : wings blackish brown, with a colourless space on the middle of the hind border, of whose length it occupies about one-third, and extends upward in a short-conical form to more than two-thirds of the breadth of the wing ; there is a small colourless spot at a short distance from the tip of this space towards the base of the wing, still nearer to which there is a small colourless streak along one of the veins, and the neighbouring part of the wing has a ferruginous tinge ; wing-ribs and veins piceous, the latter black towards the tips ; poisers black, with piceous tips. Length of the body 6 lines ; of the wings 14 lines.

a. Madras. Presented by Walter Elliott, Esq.

### Group VII.

*ANTHRAX basifascia*, n. s., Div. III., Wied. *Nigra, capite fulvo, scutello pectoreque ferrugineis, abdomine piceo ciliis flavis fasciato, antennis pedibusque nigris, femoribus piceis, alis subcineis, basi costâ venarumque lateribus fulvis.*

Head tawny and clothed with tawny hairs : mouth black : eyes piceous : feelers black, ferruginous at the base : chest piceous, clothed with tawny hairs, which form a fringe along the fore border and on each side : scutcheon and breast ferruginous, the latter clothed with tawny hairs : abdomen dark piceous, with a fringe of pale yellow hairs on the fore border of each segment, and more completely clothed on the under-side : legs black ; thighs piceous : wings slightly gray, tawny at the base and on the fore borders, and along the margins of the veins ; wing-ribs and veins ferruginous, the latter piceous towards the tips ; poisers tawny. Length of the body 8 lines ; of the wings 18 lines.

a. North Bengal. From Miss Campbell's collection.

*ANTHRAX hetrusca*, Fabr. Ent. Syst. iv. 257, 3. Syst. Antl. 119, 7. Meig. Dipt. ii. 151, 15.

a. Frejus. From Mr. Walker's collection.

*ANTHRAX lutea*. *Exoprosopa lutea*, Macq. Dipt. Exot. ii. 1, 40, 12, pl. 17, f. 11.

a. Spain. From Dr. Leach's collection.

*ANTHRAX pictipennis*, *Wied. Auss. Zweif.* i. 302, 65, *Div.* 5.

a. South Africa. Presented by Dr. A. Smith.

*ANTHRAX diffusa*, *Wied. Anal. Entom.* 23, 14. *Auss. Zweif.* i. 291, 48, *Div.* 5.

a. South Africa. Presented by Dr. A. Smith.

*ANTHRAX Iacchus*, *Fabr. Syst. Antl.* 123, 21. *Meig. Dipt.* ii. 162, 32, vi. 325. *Macq. Hist. Nat. Dipt.* i. 408, 29. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 215, 14. A. *Pandora*, *Fabr. Syst. Antl.* 121, 10. *Meig. Dipt.* ii. 170, 44, *pl.* 17, *f.* 12. *Curt. Brit. Ent.* 2nd. edit. ix. 5. A. *Megara*, *Hoffmansegg, Meig. Dipt.* ii. 172, 47. A. *italica*, *Rossi, Meig. Dipt.* ii. 171, 46. A. *picta*, *Wied. Meig. Dipt.* ii. 171, 45, *pl.* 17, *f.* 23, vii. 65. *Exoprosopa Pandora*, *Macq. Dipt. Exot.* ii. 1, 39, 9.

a. South of France. Presented by F. Walker, Esq.

b. Albania. Presented by W. W. Saunders, Esq.

c. Albania. From Mr. Walker's collection.

d. Tunis. From Mr. Fraser's collection.

*ANTHRAX capucina*, *Fabr. Ent. Syst.* iv. 259, 12. *Syst. Antl.* 123, 23. *Meig. Dipt.* ii. 173, 48, vii. 65. *Macq. Hist. Nat. Dipt.* i. 409, 30. *Loew, Prog.* 1840, 13. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 215, 15. *Bibio capucina*, *Fabr. Sp. Ins.* ii. 425, 14.

a. France.

*ANTHRAX subfascia*, n. s., mas. *Nigra, pectore cano, scutelli abdominisque lateribus ferrugineis, ventre ferrugineo ciliis albis ornato, antennis fulvis, pedibus piceis, alis cinereis, basi costaque nigro-fuscis.*

Body black: head clothed with tawny hairs, which abound most in front: mouth tawny; sucker black: feelers tawny: eyes red: chest clothed with tawny hairs; breast hoary and clothed with pale yellow hairs; scutcheon ferruginous: abdomen ferruginous on each side and beneath, its back clothed with tawny hairs, its underside adorned with fringes of whitish hairs, which cover the whole of the two last segments: legs piceous, beset with black bristles; thighs also clothed with tawny hairs beneath: wings gray, blackish brown at the base and on the fore borders till near the tips; the brown, as usual when it blends with the gray, disappears first on the disks of the areolet; wing-ribs and veins piceous, the latter black towards the tips; poisers ferruginous, with yellowish white knobs. Length of the body 6 lines; of the wings 14 lines.

a. Jamaica. From Mr. Gosse's collection.

**ANTHRAX trimacula**, n. s. *Niger, capite fulvo, scutello ferrugineo, abdomine ferrugineo nigro univittato, pedibus ferrugineis, tarsis nigris, alis cinereis fusco trimaculatis, marginibus anticis ferrugineis.*

Head tawny in front and beset with short black bristles: feelers black; first and second joints ferruginous; sucker piceous; palpi ferruginous: eyes piceous: chest and breast black, their sides adorned with long yellow hairs; scutcheon ferruginous: abdomen ferruginous, clothed with tawny hairs, and having also a row of short black bristles along the hind border of each segment; the black stripe on its back is broad at the base, but quickly decreases in width before the two last segments: legs ferruginous, beset with black bristles; feet black: wings gray, darker towards the fore border, which is ferruginous, and each having three dark brown spots on the cross-veins of the disk; veins black; poisers tawny. Length of the body 4 lines; of the wings 12 lines.

*a.* Jamaica. From Mr. Gosse's collection.

**ANTHRAX emarginata.** *Exoprosopa emarginata, Macq. Dipt. Exot.* ii. 1, 51, 40.

*a.* Massachusetts. From Prof. Sheppard's collection.

*b.* Georgia. From Mr. Abbot's collection.

**ANTHRAX fasciata.** *Exoprosopa fasciata, Macq. Dipt. Exot.* ii. 1, 51, 38, *pl.* 17, *f.* 6.

*a.* Georgia. From Mr. Abbot's collection.

**ANTHRAX indecisa**, n. s. *Nigra, flavo-hirta, subtus cano alboque hirta, antennis pedibusque nigris; alis subcinereis, anticè fuscis.*

Body black, clothed with yellow hairs, hoary and clothed with white hairs beneath: feelers, mouth and legs black; thighs hoary: wings slightly gray, brown along the fore border for about half the length; wing-ribs and fore border veins piceous; the other veins and the poisers black. Length of the body  $3\frac{1}{2}$  lines; of the wings 9 lines.

*a.* South Africa. Presented by Dr. A. Smith.

**ANTHRAX singularis.** *Exoprosopa singularis, Macq. Dipt. Exot.* ii. 1, 41, 15, *pl.* 17, *f.* 3, var.  $\beta$ . ?

*a.* Africa ?

**ANTHRAX NOX**, n. s. *Nigra, antennis pedibusque nigris, alis nigris maculis nonnullis fulvis, apice albis.*

Body rather narrow, black, and clothed with black hairs: feelers, mouth, and legs also black: eyes dark red: wings long, black,

white at the tips, fringed on the hind borders near the base; the black part includes some small, more or less, distinct tawny marks on the borders of the cross-veins; wing-ribs and veins black; poisers piceous. Length of the body 4 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

*ANTHRAX vitriecosta*, n. s. *Nigra, thorace antico pilis flavis fasciato, pedibus nigris, coxis femoribusque piceis, alis limpidis.*

Head wanting: body rather narrow, black, shining, thinly clothed with very short white hairs: front of the chest with a thick band of pale yellow hairs: legs black, and clothed with black hairs; hips and thighs piceous: wings colourless; wing-ribs and veins tawny; fore border veins slightly clouded with yellow; poisers yellow. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. ———?

*ANTHRAX suffusa*, n. s., fem. *Picea, scutello ferrugineo, abdomine subtus fulvo, pedibus fulvis, alis cinereis, basi costaque fuscis fuscoque septem-maculatis.*

Body piceous: head covered with a few yellow hairs, hoary and thinly clothed with white hairs behind: eyes bronze-colour: chest thinly clothed with pale yellow hairs, and having a few black bristles behind and on each side; scutcheon dark ferruginous; breast covered with a hoary bloom and thinly clothed with white hairs: abdomen covered with white down and yellow hairs, and having a thin fringe of black hairs on each side; under-side tawny, piceous at the base, with the exception of the hind borders of the segments: legs tawny, thinly beset with black hairs and bristles; hips and tips of feet piceous; thighs with a slight hoary bloom: wings brown at the base and along the fore borders till near the tips and for more than half the breadth, with darker marks on the borders of the cross-veins; the other part is gray, which colour may also be traced on the disks of some of the arcolelets on the border of the brown part, there are seven brown spots on the gray, two of them at the tip, and five along the hind border of the wing; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body 3 lines; of the wings 7 lines.

a. ———?

*ANTHRAX* Simson, *Fabr. Syst. Antl.* 110, 5. *Wied. Dipt. Exot.* i. 122, 6. *Auss. Zweif.* i. 259, 9, *Div.* 2, *pl.* 3, *f.* 2. *Macq. Dipt. Exot.* ii. 1, 59, 11. *Nemotelus tigrinus*, *Deg. Ins.* t. 29, *f.* 11. *Anthrax scripta*, *Say, Journ. Acad. Phil.* 1822, 43, 3.

a. Delaware. Presented by E. Doubleday, Esq.

b. New York.

ANTHRAX conspurcata, Wied. *Auss. Zweif.* i. 264, 14, Div. 2.

a. Cape?

ANTHRAX Pithecius? *Fabr. Syst. Antl.* 122, 14. *Wied. Dipt. Exot.* i. 125, 9. *Auss. Zweif.* i. 263, 13, Div. 2.

a. ———? From Mr. Children's collection.

ANTHRAX Terminus, n. s., Div. I. *Nigra, pectore cano, abdomine pilis albis fasciato apiceque fasciculis argenteis ornato, antennis nigris, pedibus ferrugineis, alis limpidis, basi fulvis maculis una fulva duabusque limpidis, medio maculis gregariis fuscis, apice fusco quadrimaculatis.*

Body black, clothed with tawny hairs and black bristles: head hoary behind: eyes red: mouth and feelers black: breast hoary: abdomen with a slight band of white hairs on the fore border of each segment, excepting the base, and with a tuft of brilliant silvery hairs on each side at the tip: legs ferruginous, clothed with black bristles: wings colourless, tawny at the base and along the fore borders, dark brown next to the base, with one tawny and two colourless spots; the outline of this brown colour is irregular, and composed of half isolated spots; then after a colourless interval comes a dark brown band composed of a cluster of spots, and more or less irregular and variable in size, according as the spots are compact or scattered; at the tip of the wing there are four dark brown spots, the largest one on the fore border, is in some instances, joined to the above-mentioned band; wing-ribs and veins black, the latter piceous at the base and along the fore borders; poisers piceous. Length of the body 6 lines; of the wings 14 lines.

a. South Africa. Presented by Dr. A. Smith.

ANTHRAX Diana, n. s., Div. II., Wied. *Nigra, ciliis fasciculisque albis ornata, abdominis apice niveo, pedibus piceis, femoribus nigris, alis basi nigro-fuscis maculisque limpidis fulvisque ornatis, apice subcinereis maculis septem fuscis.*

Body black, and clothed with black hairs: head wanting: a fringe of white hairs on the fore border of the chest, and a tuft of white hairs on each side of the base of the abdomen; the latter has also some incomplete and very slender bands of white hairs on the fore borders of the segments, and its tip is clothed with brilliant snow-white hairs: legs piceous, beset with black bristles; hips and thighs black: wings blackish brown, pale gray at the tips and along the hind borders for more than half the length from the tips; this dark part contains several small colourless and tawny spots, and the latter are chiefly on the cross-veins; its outline is very irregular, being composed of clustering spots, and the gray part is adorned

with five small blackish brown spots ; wing-ribs and veins piceous ; poisers tawny. Length of the body 4 lines ; of the wings 12 lines.

a. ——— ? From Mr. Clifton's collection.

*ANTHRAX Punctum*, n. s. *Nigra, pilis albis nigrisque ornata, pedibus nigris, tibiis ferrugineis, alis limpidis fusco maculatis et bifasciatis necnon maculis nonnullis limpidis.*

Head wanting : chest black, clothed on each side with a fringe of mingled black and white hairs : abdomen black, its sides adorned with black and white hairs, in which the latter colour prevails at the base, and is succeeded by the former, which it replaces nearer the tip where the hairs are again black : the legs are black ; the shanks are ferruginous : the wings are dark tawny at the base, and to this hue succeeds a brown space which contains several colourless dots of various sizes, those along the fore border are arranged in order, and have a regular subquadrate shape ; then comes a colourless interval which has a few brown spots interspersed ; next this is a large brown patch, with a few colourless dots ; it does not reach the hind border nor the tip, but these are adorned with brown spots of various size ; fore border of the wing, especially at the base, fringed with short stout black hairs ; veins piceous ; poisers brown, with white tips. Length of the body 4 lines ; of the wings 12 lines.

a. Brazil. From Mrs. Noel's collection.

*ANTHRAX CEdipus*, *Fabr. Syst. Antl.* 123, 22. *Wied. Dipt. Exot.* i. 124, 8. *Auss. Zweif.* i. 262, 12. *Div.* 2. *A. irrorata*, *Say. Journ. Acad. Philad.* 1822, 46, 6.

a. Nova Scotia. From Lieut. Redman's collection.

### Group VIII.

*ANTHRAX distigma*, *Wied. Auss. Zweif.* i. 309, 74. *Div.* 5. *Macq. Dipt. Exot.* ii. 1, 58, 9.

a. North Bengal. From Miss Campbell's collection.

*ANTHRAX incompta*, n. s. *Nigra, fasciculis quatuor albis ornata, abdomine apice niveo, pedibus nigris, alis subcinereis, basi costaque nigro-fuscis maculisque tribus fuscis.*

Body black, covered with a gray bloom, and clothed with black bristles and gray hairs : head wanting : a fringe of white hairs on the fore border of the chest, and a tuft of the same on each side of the base of the abdomen ; the latter has a fringe of brilliant white hairs on each side towards its tip, which is also adorned with



them; legs black, beset with black hairs and bristles: wings pale gray, blackish brown at the base, and for three-fourths of the length along the fore border, and for one-fourth of the length along the hind border; the outline of the dark part is irregular, and there is a spot on its outskirts; the gray part contains three dark spots on as many cross-veins; wing-ribs and veins black; poisers tawny, with a piceous spot on the knob. Length of the body  $3\frac{1}{2}$  lines; of the wings 10 lines.

a. West Australia. From Mr. Clifton's collection.

ANTHRAX semimacula, n. s., fem. *Nigra, abdominis segmentis fulvo fasciatis, pedibus piceis, alis fuscis cinereo maculatis et vittatis, apice subcinereis fusco bimaculatis.*

Body black: head clothed with black and yellow hairs: eyes dark red: mouth piceous: feelers black: chest clothed with long black hairs, and having a fringe of tawny hairs along the fore border: abdomen also clothed with long black hairs, and adorned with a small patch of white hairs on each side of the base; hind borders of the segments tawny: legs piceous, thinly clothed with black hairs: wings brown at the base, and along the fore border for full two-thirds of their length; this colour includes a few gray spots and stripes, its outline is very irregular and oblique, and in one part is dilated into a nearly separate spot; the rest of the wing including most of the hind border is slightly gray, with the exception of two brown spots on the disk; veins black; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 10 lines.

a. New Holland. Presented by the Haslar Hospital.

ANTHRAX bimacula, n. s., fem. *Nigra, pilis albis et nigris varia, pedibus nigris, alis fuscis, apice oblique limpidis, fusco maculatis et vittatis.*

Body black: head clothed with black hairs: eyes dark red: feelers and mouth black: chest, breast and abdomen clothed with black and white hairs: abdomen overspread with a gray bloom, and having on each side a thick patch of white hairs at the base and another near the tip; the latter hairs are dilated towards their tips: legs black, beset with black hairs and bristles; feet clothed beneath with tawny down: wings dark brown from the middle to the base; the line between this hue and the colourless part is irregular and oblique; there are two brown spots on each wing, one on the dark part, the other on a cross-vein nearer the tip, and beneath there is a narrow brown line along another cross-vein; veins black; poisers

piceous, with yellow tips. Length of the body  $3\frac{1}{2}$  lines; of the wings 10 lines.

a. China. Presented by G. T. Lay, Esq.

**ANTHRAX morio**, *Fabr. Ent. Syst.* iv. 257, 5. *Syst. Antl.* 120, 9. *Latr. Gen. Crust.* iv. 210. *Stew. El.* 257. *Lam. Anim. sans Verteb.* iii. 410, 1. *Musca morio*, *Linn. Faun. Suec.* 1784. *Gmel. Ed. Syst. Nat.* v. 2830, 9. *Musca &c.*, *Geoff. Ins.* ii. 493, 2. *Bibio morio*, *Fabr. Sp. Ins.* ii. 414, 11. *Nemotelus morio*, *Deg. Ins.* vi. 78, 14, pl. 11, f. 13. *Bibio Anthrax*, *Schränk. Faun. Boic.* iii. 2367. *Musca Anthrax*, *Schränk. Ins. Austr.* 893. *Bombylius morio*, *Turt.* iii. 685. *Anthrax sinuata*, *Fall. Dipt. Suec. Anthrac.* 6, 1. *Meig. Dipt.* ii. 159, 28, pl. 17, f. 5. *Macq. Hist. Nat. Dipt.* i. 406, 20, pl. 10, f. 4. *Zeller, Isis*, 1840, 31, 6. *Zett. Dipt. Scand.* i. 199, 6. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 213, 10.

a. France.

b. Switzerland. Presented by F. Walker, Esq.

c. South of France. Presented by the Entomological Club.

d. South of France. Presented by F. Walker, Esq.

**ANTHRAX fenestrata**, *Fall. Dipt. Suec. Anthrac.* 8, 4. *Meig. Dipt.* ii. 169, 43, pl. 17, f. 24. *Macq. Hist. Nat. Dipt.* i. 408, 27. *Zeller, Isis*, 1840, 32, 8. *Zett. Dipt. Suec.* i. 199, 7. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 214, 12. *Asilus morio*, *Linn. Faun. Suec.* 1917. *Anthrax nigrita*, var. *italica*, *Fabr. Museum.* *Musca maura*, *Herbst, Gem. Nat. Thierr.* viii. 104. *Anthrax maurus*, *Meig. Klass. Zweif.* i. 204, 9. *Lam. Anim. sans Verteb.* iii. 410, 2. *A. ornata*, *Hoffmansegy, Curt. Brit. Ent.* 1, 9.

a. England. Presented by J. C. Dale, Esq.

b. France.

c. South of France. Presented by the Entomological Club.

d. South of France. Presented by F. Walker, Esq.

**ANTHRAX Germari**, *Wied. Meig. Dipt.* ii. 175, 51.

a. ——— ?

**ANTHRAX varia**, *Fabr. Ent. Syst.* iv. 259, 10. *Syst. Antl.* 122, 18. *Meig. Dipt.* ii. 163, 33, pl. 17, f. 10. *Macq. Hist. Nat. Dipt.* i. 407, 23. *Zett. Dipt. Scand.* i. 201, 9. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 214, 11.

a. South of France. Presented by the Entomological Club.

## Group IX.

- ANTHRAX semiatra, • *Hoffmansegg, Meig. Dipt.* ii. 157, 25, pl. 17, f. 14. *Macq. Hist. Nat. Dipt.* i. 405, 18. *Loew, Prog.* 1840, 12. *Musca Morio, Linn. Syst. Nat. edit.* xii. 981, 9. *Berk. Syn.* i. 163. *Stew. El.* 256. *Schæff. Icon.* t. 76, f. 3. *Herbst, Gem. Nat. Thierr.* viii. 103, pl. 339, f. 1. *Schrank. Ins. Austr.* 892. *Bibio Morio, Schrank. Faun. Boic.* iii. 2368.
- Anthrax Morio, *Latr. Gen. Crust.* iv. 209. *Fall. Dipt. Suec. Anthrac.* 7, 2. *Panz. Faun. Germ.* xxxii. 18. *Meig. Klass. Zweif.* i. 202, 6. *Zeller, Isis*, 1840, 31, 5. *Zett. Dipt. Scand.* i. 198, 4. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 213, 9.
- a. France.
- b. South of France. Presented by the Entomological Club.
- c. South of France. Presented by F. Walker, Esq.
- d. France. Presented by E. Newman, Esq.

ANTHRAX mutua, n. s., fem. *Fusca, capite ferrugineo bivittato, thorace fascia antica vittisque lateralibus albo pilosis, abdominis dorso utrinque vittâ brevi alba pilosa, antennis nigris basi ferrugineis, pedibus nigris, alis limpidis basi costaque fuscis cinereo-que uniguttatis.*

Body dark brown, clothed with black hairs: head with two ferruginous stripes in front: feelers and sucker black, the former ferruginous at the base: eyes dark red: chest with a band of whitish hairs in front, and a stripe of the same on each side: breast clothed with yellow hairs: back of the abdomen with a short band of whitish hairs on each side: legs black, clothed with black hairs and bristles: wings colourless, dark brown at the base and along the fore border for three-fourths of the length; the dark part occupies about half the surface of the wing, includes a small round gray spot, and its border presents four angles, and is very oblique: wing-ribs and veins piceous, the latter black towards the tips of the wings; poisers piceous (?). Length of the body 5 lines; of the wings 10 lines.

Nearly allied to A. Gayi, *Macq. Dipt. Exot.* ii. 1, 66, 29, pl. 21, f. 5.

a. Chili. From Mr. Cuming's collection.

ANTHRAX morioides (var. ?), *Say, Journ. Acad. Phil.* iii. 1822, 42, 1. *Wied. Auss. Zweif.* i. 309, 75.

a. ———?'

*ANTHRAX fascipennis*, Say, *Long's Exped. to St. Peter's River, App.* 373, 4. *Wied. Auss. Zweif.* i. 284, 39. *A. Georgica* ? *Macq. Hist. Nat. Dipt.* i. 406, 19.

- a. Florida. Presented by E. Doubleday, Esq.\*
- b. Nova Scotia. Presented by F. Walker, Esq.
- c. Nova Scotia. From Lieut. Redman's collection.

*ANTHRAX analis*, Say, *Journ. Acad. Phil.* iii. 1822, 45, 4. *Wied. Auss. Zweif.* i. 313, 80. *Macq. Dipt. Exot.* ii. 1, 67, 32.

- a. Nova Scotia. From Lieut. Redman's collection.
- b. North America. Presented by H. Jones, Esq.
- c. ——— ?

*ANTHRAX Gideon*, *Fabr. Syst. Antl.* 125, 27. *Wied. Auss. Zweif.* i. 311, 79, *Div.* 5. *Macq. Dipt. Exot.* ii. 1, 64, 25.

- a. (Var. ? abdomen all black). Jamaica. From Mr. Gosse's collection.

*ANTHRAX primitiva*, n. s. *Nigra, pilis albis nigrisque vestita, antennis ferrugineis, pedibus nigris, alis subcinereis basi fuscis.*

Body black: head clothed with a few short pale tawny hairs: eyes piceous: feelers ferruginous, black towards the base: mouth clothed on each side with black hairs: sucker piceous, with a yellow band: palpi tawny: chest thinly clothed with black down, and adorned with fringes of white hairs on each side; this fringe is bordered by a few black and tawny hairs: abdomen clothed on each side and at the tip with long black and short white hairs: legs black, beset with black hairs and bristles: wings brown from the base to the middle; the other half is slightly gray, and the boundary line between the two colours is zigzag and very oblique; veins black; poisers tawny, with yellow knobs. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

- a. Galapagos. Presented by C. Darwin, Esq.

*ANTHRAX dimidiata*, *Wied. Zool. Mag.* iii. 46, 7. *Dipt. Exot.* i. 148, 44. *Auss. Zweif.* i. 311, 78, *Div.* 5.

- a. Brazil. Presented by Mrs. J. P. G. Smith.

*ANTHRAX fulvo-hirta*, *Wied. Dipt. Exot.* i. 149, 46. *Auss. Zweif.* i. 308, 73. *Macq. Dipt. Exot.* ii. 1, 69. *A. cypris*, *Meig. Dipt.* ii. 158, 26, *t.* 17, *f.* 11.

- a. Georgia. From Mr. Abbot's collection.

*ANTHRAX leucostoma*, *Wied. Dipt. Exot.* i. 146, 41. *Auss. Zweif.* i. 301, 63, *Div.* 5.

- a. South Africa. Presented by Dr. A. Smith.

*ANTHRAX semialba*, Wied. Zool. Mag. ii. Dipt. Exot. i. 130, 16.  
Auss. Zweif. i. 274, 26, Div. 3.

a. ———?

*ANTHRAX velutina*, Hoffmansegg, Meig. Dipt. ii. 160, 29, pl. 17,  
f. 19. Macq. Hist. Nat. Dipt. i. 406, 21. *A. holosericeus*,  
Meig. Klass. Zweif. i. 202, 7. Schell. Gen. Mouch. t. 32,  
f. 3.

a. France.

b. South of France. Presented by F. Walker, Esq.

*ANTHRAX fimbriata*, Meig. Klass. Zweif. i. 205, 11. Dipt. ii. 154,  
21, pl. 17, f. 13. Macq. Hist. Nat. Dipt. i. 405, 16. Loew.  
Prog. 1840, 13. Zeller, Isis, 1840, 30. Gim. Bull. Soc. Imp.  
Nat. Mosc. 1847, 1, 211, 6. *Anthrax afra*, Fabr. Ent. Syst.  
iv. 258, 7. Syst. Antl. 122, 15. Latr. Gen. Crust. iv. 310.

a. France.

b. South of France. Presented by the Entomological Club.

c. South of France. Presented by F. Walker, Esq.

*ANTHRAX maura*, Fabr. Ent. Syst. iv. 258, 6. Syst. Antl. 121, 12.  
Fall. Dipt. Succ. Anthrac. 7, 3. Panz. Faun. Germ. xxxii. 19.  
*Musca maura*, Linn. Syst. Nat. ii. 981. Faun. Suec. 1785.  
Gmel. Ed. Syst. Nat. v. 2831, 11. Schell. Gen. Mouch. pl. 32,  
f. 2. Stew. El. 256. *Bibio manra*, Fabr. Sp. Ins. ii. 414, 12.  
*Nemotelus maura*, Deg. Ins. vi. 77, 13, t. 11, f. 11, 12. *Bom-*  
*bylius maurus*, Turt. iii. 685. *Anthrax bifasciata*, Meig.  
Klass. Zweif. i. 209, a. Dipt. ii. 156, 24, pl. 17, f. 15. Macq.  
Hist. Nat. Dipt. i. 405, 17. *A. Dæmon*, Panz. Faun. Germ.  
xlv. 16.

a. South of France.

### Group X.

*ANTHRAX vestita*, n. s. *Nigra, pilis flavis fulvis nigrisque densis-*  
*sime vestita, pedibus nigris, femoribus subtus basique fulvis, alis*  
*subfusco-cinereis.*

Body black, very broad, resembling that of a *Bombylius*: head clothed with short tawny and long black hairs, the latter are most numerous, especially towards the mouth, which is piceous: feelers black: eyes nearly black: chest most thickly clothed with yellow hairs, which extend over the sides of the breast; the disk of the latter has an equally thick covering of black hairs: abdomen thickly clothed with yellow hairs, and having a large patch of bright tawny hairs near the tip, which like the disk of the under-side

is clothed with thick black hairs: legs black, clothed with short black hairs, and beset with longer black spines; thighs tawny beneath and towards the base above where they have tawny hairs: wings slightly brownish gray; the base and the fore border are dark brown, which colour ceases before the tip of the wing; its hinder outline is irregular, and dissolves into the gray of the wing; veins piceous; poisers brown, with yellow knobs. Length of the body 6 lines; of the wings 14 lines.

a. Nova Scotia. Presented by the Entomological Club.

b. Nova Scotia. From Lieut. Redman's collection.

ANTHRAX fulviana, Say, *Long's Exped. to St. Peter's River. App.* 372, 3. *Wied. Auss. Zweif.* i. 290, 47.

a. Nova Scotia. From Lieut. Redman's collection.

b. Nova Scotia. Presented by F. Walker, Esq.

ANTHRAX alternata, Say, *Journ. Acad. Philad.* 1822, 45, 5. *Wied. Auss. Zweif.* i. 303, 66.

a. New York. Presented by E. Doubleday, Esq.

b. ———? From Mr. Children's collection.

ANTHRAX resurgens, n. s. *Nigra, abdomine maculis quatuor ferrugineis, subtus fulvo, pedibus fulvis, genubus tarsisque piceis, alis limpidis, ad costam flavo-fuscis.*

Body black: head wanting: sides and fore border of chest clothed with pale tawny hairs which are more thick on the hoary breast: abdomen clothed with yellow hairs, tawny beneath, and having two large ferruginous spots on each side of the second and third segments; legs tawny, clothed with yellow hairs and black bristles; knees and feet piceous: wings colourless, yellowish brown at the base and along the fore borders till near the tips; wing-ribs and veins piceous, the latter black towards their tips; poisers tawny, with yellow tips. Length of the body 6 lines; of the wings 14 lines.

a. Swan River. Presented by Sir J. Richardson.

ANTHRAX hottentotta, *Fabr. Ent. Syst.* iv. 260, 10. *Syst. Antl.* 125, 31. *Fall. Dipt. Suec. Anthr.* 9, 6. *Meig. Klass. Zweif.* i. 199, 1. *Latr. Gen. Cr.* iv. 310. *Cons. Gén.* 443. *Lam. Anim. sans Vert.* iii. 410, 3. *Curt. Brit. Ent.* 2nd edit. ix. 2. *Musca hottentotta, Linn. Syst. Nat.* ii. 281. *Faun. Suec.* 1287. *Gmel. Ed. Syst. Nat.* v. 2831, 13. *Schaf. Icon. pl.* 12, f. 10—12, pl. 76, f. 17. *Bibio hottentotta, Fabr. Sp. Ins.* ii. 415, 16. *Schrank. Faun. Boic.* iii. 2369. *Bombylius Hottentottus, Turt.* iii. 686. *Nemotelus hottentottus, Deg. Ins.* vi. 77,

pl. 11, f. 77. *Anthrax flava*, *Hoffmansegg*, *Meig. Dipt.* ii. 143, pl. 17, f. 9. *Macq. Hist. Nat. Dipt.* i. 403. *Curt. Brit. Ent.* 2nd edit. ix. 1. *Loew. Prog.* 1840, 12, 1. *Ent. Zeit. Stett.* 1841, 26. *Zett. Dipt. Scand.* i. 195, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 209, 1. *A. fasciata*, *Meig. Klass. Zweif.* i. 200, 3. *A. circumdata*, *Hoff. Meig. Dipt.* ii. 143, 2. *Macq. Hist. Nat. Dipt.* i. 403, 9. *Zett. Dipt. Scand.* i. 196, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 210, 2. *A. cingulata*, *Meig. Dipt.* ii. 145, 3. *Ahr. Faun. Eur.* 3, 19. *Macq. Hist. Nat. Dipt.* i. 404, 12. *Curt. Brit. Ent.* 2nd edit. ix. 3. *Zett. Ins.* 1840, 26, 1. *Zett. Dipt. Scand.* i. 197, 3. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 210, 3. *A. venusta*, *Meig. Dipt.* ii. 145, 4. *Macq. Hist. Nat. Dipt.* i. 403, 10. *A. concinna*, *Meig. Dipt.* ii. 147, 7. *Macq. Hist. Nat. Dipt.* i. 404, 7. *A. leucostoma*, *Meig. Dipt.* ii. 146, 6. *Macq. Hist. Nat. Dipt.* i. 404, 13. *A. bimaculata*, *Macq. Hist. Nat. Dipt.* i. 403, 11.

a. England.

b. France.

c. South of France. Presented by the Entomological Club.

d. South of France. Presented by F. Walker, Esq.

*ANTHRAX modesta*, *Meig. Dipt.* ii. 146, 5.

a. South of France. Presented by F. Walker, Esq.

*ANTHRAX lasia*, *Wied. Analecta. Entom.* 23, 13. *Auss. Zweif.* i. 296, 55.

a. South Africa. Presented by Dr. A. Smith.

*ANTHRAX sexfasciata*, *Wied. Dipt. Exot.* i. 142, 35. *Auss. Zweif.* i. 296, 56.

a. South Africa. Presented by Dr. A. Smith.

*ANTHRAX Bastardi*, *Macq. Dipt. Exot.* ii. 1, 60, 13, pl. 20, f. 3.

a. Var. Nova Scotia. From Lieut. Redman's collection.

*ANTHRAX lateralis*, *Say, Journ. Acad. Philad.* 1822, 42, 2. *Wied. Auss. Zweif.* i. 318, 89.

a. Florida. Presented by E. Doubleday, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

*ANTHRAX submacula*, n. s., fem. *Nigra, pilis flavis fulvisque vestita, pectore pilis fuscis vestita fasciculisque duabus rufis ornata, abdomine pilis ferrugineis vestito fasciisque duabus albidis, antennis pedibusque nigris, alis limpidis, basi et ad costam flavo-fuscis.*

Body black, clothed with yellow and tawny hairs: crown of the head clothed with black hairs: front adorned with bright tawny

hairs: feelers and mouth black, the former beset with black bristles at the base: eyes red: breast clothed with brown hairs, and having a tuft of red hairs near each wing-rib: abdomen clothed with ferruginous hairs, and having on each side two or more transverse spots of white hairs, which when not worn away, appear to form bands on the back: legs black, clothed with black hairs and bristles: wings colourless, yellowish brown at the base and along the fore borders till near the tips; wing-ribs and veins black; poisers tawny, with yellow tips. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*ANTHRAX subannulus*, n. s., mas. *Nigra, lateribus thoracis anticis fulvo-pilosis, pectore ventrequae piceis, abdomine pilis fulvis fasciato, apice nigro piloso fasciculisque duabus argenteis ornato, antennis nigris, pedibus piceis, alis limpidis basi fulvis.*

Body narrow, black; its sides and the fore border of the chest thickly clothed with bright tawny hairs: eyes red: feelers and sucker black: breast piceous, with a slight hoary bloom: abdomen with a band of bright tawny hairs on each segment; the tawny hairs on the sides give place to black hairs towards the tip which is adorned with two tufts of bright silver hairs; under-side piceous: legs piceous, beset with black hairs; thighs clothed with tawny hairs: wings colourless, tawny at the base; wing-ribs and veins piceous; poisers yellow. Length of the body 4 lines; of the wings 8 lines.

a. ———?

### Group XI.

Like the ninth group, but the first submarginal vein has a fork near its base.

*ANTHRAX purpurata*? Wied. Auss. Zweif. i. 300, 62.

a. ———?

### Group XII.

Like the ninth group, but the vein that divides the first from the second submarginal areolet has a short fork on its first curve.

*ANTHRAX alterna*, n. s. *Fusca, pilis fulvis flavis albisque varia, abdomine subtus cano fulvoque vittato, pedibus fulvo-piceis, alis subcinereis, venis fusco nebulosis.*

Body rather broad: head and chest brown: head tawny about the mouth, clothed in front with bright tawny hairs, and behind the



eyes with tawny and white hairs: eyes red: first and second joints of feelers hoary, furnished with long white hairs; third joint piceous: chest thinly clothed with short tawny hairs, and having along the fore border a thick fringe of long yellow hairs; its sides and the breast are also clothed with long yellow hairs: abdomen black, with alternate bands of tawny and white hairs which are mingled, especially towards the tip, with black hairs; there is a thick patch of white hairs on each side of the base; the under-side is clothed with white hairs, and has alternate hoary and tawny bands, the former colour prevailing at the fore border, the latter at the hind border of each segment: legs piceous above, tawny beneath, clothed with black spines and tawny hairs; thighs clothed with white hairs; feet dark piceous: wings slightly gray; the fore border brown, which colour extends along some of the veins into the disk of the wing; veins piceous; poisers tawny, with piceous knobs. Length of the body 5 lines; of the wings 12 lines.

a. New Holland. Presented by the Earl of Derby.

*ANTHRAX flammigera*, n. s. *Nigra, pilis aureis vestita, pectore cano, abdomine fulvo nigro vittato, pedibus fulvis, tarsis piceis, alis subcinereis basi costaque flavo-fuscis.*

Head wanting: chest black, thickly clothed with bright golden hairs: breast hoary and clothed with white hairs: abdomen tawny, and thickly clothed with bright tawny hairs, with the exception of a broad black stripe, which slightly decreases in breadth from the base to the tip of the back: legs tawny; feet piceous: wings slightly gray, yellowish brown at the base and on the fore borders till near the tips; wing-ribs and veins piceous, the latter black towards the tips of the wings; poisers ferruginous, with yellow knobs. Length of the body  $4\frac{1}{2}$  lines; of the wings 11 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*ANTHRAX albipectus*, n. s., fem. *Nigra, capite pectoreque canis, abdominis lateribus basi flavo fasciculatis, ventre cano ciliis lateralibus fasciisque flavis, antennis nigris basi fulvo-cinctis, pedibus canis, tibiis flavis, tarsis piceis, alis fulvo subcinereis.*

Body narrow, black, rather thickly clothed with tawny hairs: head clothed with black hairs on the crown and with pale yellow hairs in front; hind part and under-side hoary: eyes red: feelers black, beset with black bristles and encircled with pale tawny rings towards the base: breast hoary, clothed with white hairs: abdomen with a tuft of yellow hairs on each side at the base; under-side hoary, with yellow hind borders to the segments, and a fringe of yellow hairs on each side: hips and thighs hoary, the latter yellow

towards the tips; shanks yellow, beset with black bristles; feet piceous: wings long, narrow, slightly gray, with a tawny tinge, which disappears at the tips and along the hind borders; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with yellow tips. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

a. ———?

b. South of France. Presented by F. Walker, Esq.

Perhaps this species is *A. Hesperus*, Rossi, *Meig. Dipt. ii.* 165, 36.

### Group XIII.

Like the ninth group, but the vein that divides the first from the second submarginal areolet springs from the first submarginal vein. The specimen described has three submarginal areolets in one of its wings.

*ANTHRAX argentifera*, n. s. *Nigra, capite piceo, pectore, scutello, abdominis lateribus ventreeque ferrugineis, abdominis dorso fasci- culis albis, antennis pedibusque nigris, alis limpidis basi costaque ferrugineis.*

Allied to *A. rivularis*. Body black: head piceous, thickly clothed with bright tawny hairs, black and clothed with white hairs behind: feelers black, ferruginous at the base: sucker black: eyes red: chest clothed with tawny hairs; breast ferruginous and clothed with yellow hairs; scutcheon dark ferruginous: abdomen ferruginous on each side and beneath, and having a band of white hairs on the fore border of each segment, and a tuft of white hairs on each side at the base: legs black and beset with black bristles; thighs dark ferruginous: wings colourless, dark ferruginous at the base and along the fore borders for three-fourths of the length; this dark colour is irregular in outline on the disks of the wings, and runs along the borders of some of the veins, leaving the areolets almost colourless; wing-ribs and veins piceous, the latter black towards the tips; poisers ferruginous, with tawny knobs. Length of the body 5 lines; of the wings 12 lines.

a. ———?

### Group XIV.

Like the ninth group, but the first submarginal vein has its source near the base of the wing, and is straight till near its tip.

**ANTHRAX fervida**, n. s., mas. *Nigra, capite piceo, pectore cano, abdomine ferrugineo, nigro subvittato apiceque nigro fasciculato, ventre flavo basi cano, antennis nigris, pedibus fulvis, tarsis piceis, alis fulvis apice limpidis.*

Body narrow: head piceous, clothed with short tawny hairs behind and in front, hoary beneath: feelers black: mouth ferruginous: eyes bronze colour: chest black, thickly clothed with bright tawny hairs; breast hoary: abdomen long-obconical, rather short, ferruginous, clothed with bright tawny hairs, and having on the back a black stripe which is interrupted on the hind border of each segment; a tuft of black hairs at the tip; under-side yellow and clothed with yellow hairs, hoary at the base: legs tawny; shanks darker than the thighs; feet piceous: wings long, narrow, tawny, paler along the hind borders, colourless at the tips; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with yellow knobs. Length of the body  $3\frac{1}{2}$  lines; of the wings 9 lines.

a. ———?

**ANTHRAX cognata**, n. s., mas. *Nigra, pectore piceo, abdomine ferrugineo, basi nigro maculato et utrinque fulvo fasciculato, antennis nigris, pedibus fulvis, genubus tarsisque piceis, ciliis subcinereis, basi costaque fulvis.*

Body narrow, black: head clothed behind with short yellow hairs, and having a slight hoary bloom in front: feelers black: eyes bronze-colour: chest thickly clothed with bright tawny hairs: breast piceous, with a hoary bloom: abdomen ferruginous, clothed with bright tawny hairs, in which a few black hairs are mingled on each side; the base has a black spot in the middle and a tuft of tawny hairs on each side: legs tawny, beset with a few black bristles; knees and feet piceous: wings narrow, very slightly gray, tawny at the base and along the fore borders; wing-ribs and veins piceous, the latter black towards the tips; poisers yellow. Length of the body 3 lines; of the wings 8 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

#### Group XV.

**ANTHRAX Pegasus**, Wied. *Auss. Zweif.* i. 298, 59.

a. Brazil. From Mrs. Noel's collection.

#### Group XVI.

**ANTHRAX Halcyon**, Say, *Long's Exped. to St. Peter's River, App.* 371, 1. *Wied. Auss. Zweif.* i. 288, 44, pl. 3, f. 6.

a. Georgia. From Mr. Abbot's collection.

**ANTHRAX** Demogorgon, n. s. *Nigra, pilis rufis hirta, capitis vertice scutelloque ferrugineis, abdominis lateribus nigro ciliatis, antennis nigris, pedibus ferrugineis, tarsis piceis, alis nigro-fuscis maculis una magna fulva tribusque limpidis guttisque duabus limpidis, apice subcinereis fusco bivittatis.*

Body black: head clothed with black hairs, ferruginous between the eyes, tawny in front: mouth tawny; feelers and sucker black: eyes dark red: chest and breast, and especially the latter, clothed with red hairs; scutcheon ferruginous, excepting the fore border: abdomen dull black, piceous beneath, clothed with red hairs, and having a fringe of black hairs on each side: legs dark ferruginous, beset with black bristles; feet piceous: wings blackish brown, having near the fore border in middle of the length a large ferruginous spot, which also stretches along the borders of the veins; beneath this there are three colourless spots, which occupy as many areolets,—the first nearest to the hind border is small, the second is larger, the third is triangular and larger; beyond the latter and nearer to the hind border there are two very small, and sometimes almost obsolete, colourless spots; the tips of the wings are pale gray, excepting two stripes which follow the curves of the veins and are joined together at each end; wing-ribs and veins piceous; poisers tawny, their knobs piceous above. Length of the body 6 lines; of the wings 16 lines.

a. Florida. Presented by E. Doubleday, Esq.

The fork on the base of the fourth areolet on the hind border, reckoning from the base of the wing, is longer than that of *A. Halcyon*.

#### Group XVII.

**ANTHRAX** bipunctata, *Fabr. Syst. Anth.* 118, 4. *Wied. Dipt. Exot.* i. 138, 28. *Auss. Zweif.* i. 286, 42.

a. ———?

#### Group XVIII.

**ANTHRAX** melaleuca, *Wied. Auss. Zweif.* i. 299, 61.

a. Brazil?

**ANTHRAX** hyalacra, *Wied. Auss. Zweif.* i. 315, 84.

a. Brazil?

**ANTHRAX delicatula**, n. s. *Nigra, angusta, pilis albis ornata, pedibus nigris, alis longis, angustis, limpidis, basi marginibusque anticis fuscis.*

Body black, narrow: head clothed with white hairs: eyes piceous: feelers black: chest also adorned with white hairs, which form a stripe on each side and a band near the tip: the white hairs on the abdomen form a band, and a patch on each side near the base, and another patch on each side near the tip: legs black, rather long and very slender, beset with black spines: wings long and narrow, dark brown across the whole breadth for one-third from the base, and across half the breadth from thence to the tips; the hinder half is limpid, and the boundary lines between the two colours is very uneven and indistinct, and forms three or four hardly defined angles; veins black; poisers tawny, with piceous knobs. Length of the body 4 lines; of the wings 12 lines.

a. Jamaica. From Mr. Gosse's collection.

**ANTHRAX noctiluna**, n. s. *Cyaneo-nigra, maculis argenteis, abdominis basi fasciculis albis, antennis pedibusque nigris, alis nigro-fuscis vittis sublimpidis, basi costaque subcyaneis.*

Body black, with a very slight bluish tinge, clothed with black hairs: head silvery behind and along the eyes in front: feelers and mouth black: eyes dark red: breast hoary, with some silvery marks: each side of the abdomen adorned with a large tuft of white hairs at the base and with a smaller tuft of bright silvery hairs near the tip: legs black and clothed with black hairs: wings long, narrow, blackish brown, with a bluish tinge at the base and along the fore borders, and having eight pale streaks on the areolets at the tips and along the hind borders; wing-ribs and veins piceous; poisers piceous, with tawny tips. Length of the body 5 lines; of the wings 16 lines.

a. ———?

**ANTHRAX Cephus**, *Fabr. Syst. Antl.* 124, 25. *Wied. Dipt. Exot.* i. 141, 33. *Auss. Zweif.* i. 297, 58. *Macq. Dipt. Exot.* ii. 1, 59, 12.

a. Brazil?

### Group XIX.

Distinguished by the contortion of the veins at the tips of the wings.

**ANTHRAX insignis**. *Neuria lateralis*, *Newman, Entomologist*, 220.

a. New Holland. Presented by Dr. A. Sinclair.

b. New Holland. Presented by R. Brown, Esq.

*ANTHRAX fasciata*, *Fabr. Syst. Antl.* 118, 2. *Wied. Auss. Zweif.* i. 321, 93. *Neuria nigrescens*, *Newm. Entomologist*, 221.  
a. New Holland. Presented by the Earl of Derby.

*ANTHRAX Stria*, n. s. *Nigra, capite cano, thoracis scutellique lateribus, pectore, abdomineque subtus ferrugineis, abdomine fasciis fulvis, antennis piceis, pedibus ferrugineis, tarsis piceis, alis ferrugineis vittis sublimpidis apicem versus fusco alboque fasciatis.*

Body black, clothed with black and tawny hairs, among which are mingled a few white hairs: head hoary behind and in front along the eyes, above the insertion of the feelers, where it is thickly clothed with black hairs; front thickly clothed with bright tawny hairs: feelers and mouth piceous: eyes dark red: breast and sides of the chest ferruginous and covered with a hoary bloom; sides of the scutcheon also ferruginous: abdomen ferruginous beneath and thinly clothed with yellow hairs; hind borders of the segments pale tawny: legs ferruginous; feet piceous: wings ferruginous brown, with a white band on each before the tips; the areolets with almost colourless streaks, which are most distinct along the hind borders, but thence to the fore borders become successively more obsolete; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with piceous tips. Length of the body 8 lines; of the wings 22 lines.

a. New Holland. Presented by Dr. A. Sinclair.

*ANTHRAX basalis*, n. s. *Nigra, pectore cano, thoracis lateribus, scutello, abdomineque subtus ferrugineis, abdomine fusco basi albo vittato, antennis picris, pedibus ferrugineis, alis fusco-cinereo variis, apice albis.*

Body black: head hoary, beset with black bristles, which are most thick about the insertion of the feelers, tawny and thickly clothed with tawny hairs in front: mouth black, ferruginous at the base: eyes and feelers piceous, the latter dark ferruginous at the base: chest with a gray bloom, which is interrupted by three black stripes, and clothed with tawny hairs, which are more thick on the hoary breast; scutcheon and sides of the chest ferruginous: abdomen dull brown, thinly clothed with tawny hairs, with a white stripe at the base, ferruginous beneath: legs dark ferruginous, clothed with black hairs: wings brown, white at the tips, and having several pale gray streaks in the areolets of the disks; hind borders also mostly pale gray; wing-ribs and veins piceous, the latter black towards the

tips; poisers ferruginous. Length of the body  $7\frac{1}{2}$  lines; of the wings 21 lines.

a. New Holland. Presented by the Haslar Hospital.

b. West Australia. From Mr. Clifton's collection.

*ANTHRAX quadripennis*, n. s., mas. *Nigra, abdomine subtus ferrugineo, antennis pedibusque nigris, alis ferrugineo-cinereis, fusco fasciatis apice albis.*

Body black, clothed, especially on the sides, with yellow hairs: feelers, mouth and eyes also black: abdomen beneath ferruginous, but black towards the tip, with the exception of the hind borders of the segments: legs black, beset with black bristles: wings ferruginous along the fore borders till near the tips, which are white, pale gray along the hind borders from the base to a little beyond half the length, where this colour is divided from the white of the tips by a short broad pale brown band; wing-ribs and veins piceous, the latter black towards the tips; poisers ferruginous. Length of the body 6 lines; of the wings 20 lines.

a. New Holland.

*ANTHRAX ocellata*. *Neuria ocellata*, Newman, *Entomologist*, 221.

a. New Holland. Presented by the Rev. Augustus Beaufort.

b. ———?

*ANTHRAX præargentata*, Macleay, *King's Narr. Surv. West Austral.* ii. 468, 186. *Wied. Auss. Zwielf.* ii. 648, 73.

a. New Holland. From Mr. Walker's collection.

*ANTHRAX inclusa*, n. s. *Nigra, capite pectore ventrequæ canis, antennis pedibusque nigris, alis fuscis, albo quinque-maculatis, apice albis margine apicali subfusco.*

Nearly allied to *A. ocellata*, but smaller and somewhat different in other characters. Body narrow, black, clothed with pale yellow hairs: head hoary, piceous about the mouth, thickly clothed with tawny hairs about the feelers, which, like the sucker, are black: chest with a fringe of black hairs on the fore border: breast hoary: abdomen with a few black hairs on the hind borders of the segments and on each side, hoary beneath: legs black, beset with black hairs and bristles; thighs also clothed with yellow hairs: wings brown, with a large white spot at the tip, the extreme part of which is slightly clouded with pale brown; the brown part is very pale on the disks of the areolets, and especially so towards the hind border, but dark along the veins; it comprises five white spots, which are

variable in size and in shape ; two of them are near together towards the base of the wing ; beyond these there is another, which is larger ; the fourth and the fifth are alongside of each other, and nearer to the tip of the wing ; wing-ribs and veins piceous, the latter black towards the tips ; poisers tawny, with yellow knobs. Length of the body  $2\frac{1}{2}$ —4 lines ; of the wings 7—10 lines.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

*ANTHRAX sobria*, n. s. *Picea, capite cano, scutello ferrugineo, abdomine subtus ferrugineo fasciis fulvis, antennis nigris, pedibus ferrugineis, femoribus tibiis tarsisque apice nigris, alis cinereis, basi costaque fuscis.*

Body piceous : head hoary, thickly clothed with black hairs above the feelers and with pale yellow hairs in front : feelers black : mouth dark ferruginous : eyes red : chest clothed with tawny hairs, which are paler and thicker on each side : breast ferruginous, with a hoary bloom, and clothed with white hairs : abdomen thinly clothed with tawny black and whitish hairs, the latter mostly on the sides ; under-side ferruginous, its segments with tawny hind borders : legs ferruginous, clothed with black hairs ; tips of the thighs, of the shanks and of the feet black : wings gray, long and narrow, brown at the base and along the fore borders for four-fifths of the length, where the brown blends with the gray ; wing-ribs and fore border veins piceous, the other veins black ; poisers tawny. Length of the body 7 lines ; of the wings 18 lines.

a. New Holland. Presented by J. Hunter, Esq.

*ANTHRAX extensa*, Walker, *Ent. Mag.* ii. 473.

a. New Holland. Presented by the Haslar Hospital.

b. Western Australia. From Mr. Clifton's collection.

*ANTHRAX corculum*. *Neuria corculum*, Newman, *Entomol.* 221.

a. New Holland. From Mr. Argent's collection.

b. New Holland.

*ANTHRAX dorsalis*, n. s., mas. *Ferruginea, capite necnon thoracis abdominisque discis nigris, thorace pilis flavis utrinque rittato, antennis nigris, pedibus ferrugineis, alis cinereis, basi costaque fuscis.*

Body ferruginous : head black, clothed with tawny hairs in front, and with black hairs on the crown and about the base of the feelers, which, like the sucker, are black : eyes red : lip pale yellow : lancets ferruginous : disk of the chest and that of the abdomen black : chest clothed with pale red hairs, and having a stripe of pale



yellow hairs with a few black bristles on each side: breast covered with a hoary bloom and with a few short yellow hairs: abdomen thinly clothed with short yellow and longer black hairs: legs ferruginous, beset with black hairs and bristles: wings brown at the base, along the fore borders and at the tips; the other part gray, with the exception of three short oblique white bands, which divide the brown from the gray colour; the disks of the areolets are paler towards the tips of the wings; wing-ribs and veins piceous, the latter black towards the tips; fore border veins ferruginous; poisers tawny, with piceous knobs. Length of the body  $3\frac{1}{2}$  lines; of the wings 10 lines.

a. New Holland. Presented by the Haslar Hospital.

*ANTHRAX* serpentiger, n. s. *Nigra, abdomine subtus ferrugineo, antennis pedibusque nigris, tibiis tarsisque fulvis, alis fuscis, vittis cinereis striaque serpentina limpida.*

Body black, clothed with ferruginous hairs: feelers and mouth black: eyes piceous: sides of the chest clothed with white hairs, of which there are also some on the hind border: hoary hairs are mingled on the abdomen with the ferruginous hairs, which prevail chiefly on the hind borders of the segments; under-side of the abdomen dark ferruginous: legs black, and beset with black bristles; shanks and feet tawny, the latter piceous towards the tips: wings dark brown; cross-veins clouded with black; areolets varied with gray streaks, which are most distinct towards the hind borders of the wings; a narrow colourless serpentine streak begins in the disk at a little beyond two-thirds of the length of the wing, and extends thence to the tip; wing-ribs and veins black; poisers tawny, with piceous knobs. Length of the body 3 lines; of the wings 8 lines.

a. West Australia. From Mr. Clifton's collection.

*ANTHRAX* plena, n. s., fem. *Nigra, angusta, pilis nigris albis fulvisque vestita, thoracis lateribus scutello ventreque piceis, pedibus fulvis femoribus nigris, alis cinereis vittis maculisque plurimis fuscis, marginibus anticis fuscis, basi fulvis.*

Body black, rather narrow: head clothed with black hairs, and having a few tawny hairs near the base of the feelers, which like the mouth are black: eyes red: chest and breast clothed with long black hairs, among which are some shorter tawny hairs, and there is a fringe of white hairs along each side; scutcheon and sides of the chest piceous: abdomen more thinly clothed with long black hairs, and also furnished with short white hairs along its sides; under-side piceous: legs beset with a few black spines and hairs;

hips and thighs black; shanks and feet tawny, with piceous tips: wings narrow, gray, dark tawny at the base, brown along the fore border for near two-thirds of their length; this brown stripe slightly widens towards its tip, where it terminates rather abruptly, but very irregularly, being interrupted by gray intervals; twelve brown spots occupy the veins on the gray part of the wing; six of these are on the cross-veins, and five along the hind borders; there are several pale brown stripes on the disks of the areolets, and two large irregular brown blotches; wing-ribs and veins black; poisers tawny, with a large piceous spot on the upper-side of the knob. Length of the body 3 lines; of the wings 10 lines.

*a.* West Australia. From Mr. Clifton's collection.

*ANTHRAX decedens*, n. s. *Nigro-fusca capite nigro, thorace vittis quinque pallidis, lateribus scutelloque ferrugineis, abdomine subtus fulvo, pedibus ferrugineis, alis cinereo-fuscis ferrugineo varis, apice albis.*

Body dark brown, much broader and less linear than that of any of the preceding species: head black, hoary behind, beset with black bristles between the eyes, and thickly clothed in front with tawny hairs: chest clothed with tawny hairs, having three pale very indistinct stripes on the disk, and a more decided white stripe on each side; sides and scutcheon ferruginous; breast hoary: abdomen clothed with tawny hairs which form a tuft on each side at the base, and the latter has also a slender band of yellowish white hairs; under-side tawny: legs dark ferruginous; thighs clothed with tawny hairs; shanks and feet clothed with black hairs: wings grayish brown, white at the tips, with a ferruginous tinge at the base and along the fore borders; wing-ribs and veins dark ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body 7 lines; of the wings 20 lines.

*a.* West Australia. From Mr. Clifton's collection.

*ANTHRAX tendens*, n. s., mas. *Ferruginea, thoracis dorso nigro, abdomine rufo fasciis nigris, antennis nigris, pedibus rufis, alis limpidis fusco bifasciatis.*

Head thickly clothed in front with yellow hairs: feelers and sucker black, the former ferruginous at the base: eyes dark red: chest black, clothed with tawny hairs; sides and breast ferruginous, the latter slightly covered with a hoary bloom; scutcheon also ferruginous: abdomen red, clothed with yellowish white hairs at the base and on each side, and having a slender irregular black band on each segment of the back: legs red or tawny, beset with black hairs and bristles: wings long, brown, with two irregular colourless

bands, one in the middle, the other at the tip of the wing: the brown at the base is blackish on the fore border, but becomes paler and lastly gray towards the hind border; the first colourless band is more or less tawny adjoining the fore border; the brown between it and the second colourless band is very irregular towards the tip of the wing, the disks of its areoletts are there nearly colourless, and its outskirts are confined to the borders of the veins; squamulæ fringed with bright yellow hairs; wing-ribs and veins piceous, the latter black towards the tips; poisers ferruginous. Length of the body 5—6½ lines; of the wings 15—19 lines.

a. New Holland. Presented by the Haslar Hospital.

b. West Australia. From Mr. Clifton's collection.

*ANTHRAX plana*, n. s., n. sp. *Picea, thorace cano trivittato scutello abdomineque ferrugineis.*

Body piceous: head clothed with black hairs in front, ferruginous about the mouth: sucker and feelers black: chest with three hoary stripes, clothed with tawny hairs, and adorned on each side with a tuft of dark red hairs in front, and of pale yellow hairs with a few red ones behind, and having also some white hairs about the base of the wings: scutcheon ferruginous: abdomen ferruginous, with a tuft of white hairs on each side at the base, black along the fore borders of the segments, which have each a band of white hairs; their sides are adorned with alternate tufts of black and white hair, and there is a double row of these tufts on the under-side; legs piceous, clothed with black hairs and bristles; thighs clothed beneath with tawny hairs, and having also some white hairs: wings gray, white at the tips, brown at the base and along the fore borders for more than three-fourths of the length, and for somewhat less than half the breadth; a white interval between the brown and the gray; the hind border of the brown part is rather concave, and it is oblique towards the tip; on the veins of the gray part there are four brown spots and two paler brown streaks, the latter approaching the hind border of the wing; wing-ribs and veins piceous, the latter darker towards the tips; poisers tawny, with yellow knobs. *Fem.*—Differs from the male in the following characters. Head larger, hoary, ferruginous in front, thickly clothed with tawny hairs about the mouth and the feelers, which latter are thickly beset with black bristles at the base: sides of the chest ferruginous: breast (like that of the male) ferruginous, with a hoary bloom: legs somewhat paler; thighs ferruginous beneath: the gray of the wing is darker, and the white between it and the brown is thereby more clearly defined. Length of the body 6—7 lines; of the wings 17—20 lines.

a. New Holland. Presented by the Haslar Hospital.

b. West Australia. From Mr. Clifton's collection.

*ANTHRAX patula*, n. s., mas. et fem. *Picea, thoracis lateribus scutello pectore abdomineque ferrugineis, pedibus nigris, fem. tibiis piceis, alis cinereis, fusco-vittatis et quadrimaculatis, apice et disco limpidis, basi costaque fuscis, alboque unimaculatis.*

Head wanting: chest piceous, clothed with hoary hairs, and having along the fore border a band of tawny hairs, with which some black hairs are mingled: sides of the chest and scutcheon ferruginous: breast ferruginous, covered with a hoary bloom, and thinly clothed with white hairs: abdomen like that of *A. plana*, thinly clothed on the back with black hairs, and that of the male having a broad and thick band of pale yellow hairs at the base: legs black, clothed with black hairs and bristles; shanks of the female piceous: wings gray, brown at the base and along the foreborders for more than three-fourths of the length, and for full one-third of the breadth, colourless at the tips, and for a space between the gray and the brown; there is a small white spot on the outskirt of the brown at one-third of the length of the wing: the gray part is indistinctly clouded with pale irregular brown streaks, and on its veins there are four darker brown spots, two of them very small; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with yellow tips. Length of the body 6—7 lines; of the wings 18—19 lines.

a. New Holland. Presented by Capt. Gray.

b. West Australia. From Mr. Clifton's collection.

#### *CORSOMYZA*, Wiedemann.

*CORSOMYZA clavicornis*, Wied. *Auss. Zweif.* i. 329, 4. *Jenson, Bull. Soc. Imp. Nat. Mosc.* iv. 332. *Mulio clavicornis*, Wied. *Zool. Mag.* iii. 12, 16.

a. Cape. From Mr. Walker's collection.

#### *BOMBYLIUS*, Linn.

\* *Cross-veins along the hind border of the wing forming an interrupted line.*

† *Discoidal areolet closed.*

A. *The little cross-vein at three-fifths of the length of the discoidal areolet.*

*BOMBYLIUS orientalis*, Macq. *Dipt. Exot.* ii. 90, 9, pl. 6, f. 2.

a. North India. From Mr. L. James's collection.

b. North Bengal. From Miss Campbell's collection.

**BOMBYLIUS hilaris**, n. s. *Fuscus, thoracis lateribus canis fulvoque pilosis, pectore ventrequae canis alboque pilosis, abdomine basi piloso albo fasciato et utrinque pilis nigris rufis albisque ornato, antennis nigris, pedibus rufis alis limpidis, basi et antice fuscis.*

Head dark brown, clothed with black hairs on the crown, with tawny hairs in front, and with white hairs beneath, where it is hoary: mouth black, much less than half the length of the chest: feelers black, a little longer than the head; third joint linear, longer than the first and second joints; fourth joint very short: chest brown, with a few tawny hairs; sides hoary, and clothed with a thick fringe of tawny hairs: breast hoary, clothed with white hairs, and having a thick fringe of tawny hairs on each side and in front: abdomen dark brown, with a few tawny hairs on the back, and having a band of white hairs at the base; the sides fringed with long black and red hairs and with shorter white hairs, the latter are chiefly towards the tip, which is adorned with a tuft of red hairs; under-side hoary, clothed with white and pale red hairs, the latter chiefly on the hind borders of the segments: legs red, beset with bristles of the same colour: wings brown at the base, and along the fore borders to the tips, colourless along the hind borders; the brown occupies full half the surface, it slightly decreases in breadth from the base to the tip, and its border is waved with three distinct outward and two inward curves; wing-ribs and veins dark ferruginous; poisers tawny, with ferruginous knobs. Length of the body 5 lines; of the wings 12 lines.

a. Swan River. Presented by Sir J. Richardson.

b. West Australia. From Mr. Clifton's collection.

B. *The little cross-vein at two-thirds of the length of the discoidal areolet.*

**BOMBYLIUS analis**. Mas. B. analis, *Fabr. Ent. Syst.* iv. 408, 5. *Syst. Anth.* 130, 10. *Coq. Illust. Icon.* 85, pl. 20, f. 5. *Wied. Dipt. Exot.* i. 160, 1, *Auss. Zweif.* i. 331, 1. Fem. B. discoideus, *Fabr. Ent. Syst.* iv. 409, 6. *Syst. Anth.* 130, 11. *Coq. Ill. Icon.* 86, pl. 20, f. 6. *Wied. Zool. Mag.* ii. 42.

Var. α. Tip of the abdomen clothed with white hairs.

Var. β. Tip of the abdomen clothed with tawny hairs.

Var. γ. Tip of the abdomen clothed with black hairs, with a small tuft of tawny hairs in the middle.

Var. δ. Smaller: tip of the abdomen with a tuft of tawny hairs on each side.

a. South Africa. Presented by Dr. A. Smith.

b. Cape. From Mr. Walker's collection.

**BOMBYLIUS suffusus**, n. s., fem. *Niger, thorace pilis fulvis vestito, pectore pilis albis et nonnullis nigris vestito, abdomine pilis nigris vestito fasciculisque uno fulvo duobusque albis apice ornato, antennis pedibusque nigris illis basi fulvis, alis limpidis, basi nigro-fuscis, costa venarumque marginibus fulvis.*

Body black: head clothed above with pale tawny hairs, and in front with silvery hairs; sides of the mouth piceous: mouth black, about half the length of the body: feelers black, tawny at the base: eyes piceous: chest clothed with pale tawny hairs: breast clothed with white hairs, and having a few black hairs about the base of the legs: abdomen clothed with black hairs, which are most thick on each side; its tip adorned with two large tufts of white hairs, and having also beneath a small tuft of bright tawny hairs: legs black: wings slightly gray, tawny on the fore borders and along the sides of the veins, blackish brown at the base; veins tawny; wing-ribs and poisers piceous; the former having each a tuft of white hairs in the front. Length of the body 5 lines; of the wings 14 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**BOMBYLIUS subluna**, n. s., mas. *Niger, pilis albis vestitus, scutello ferrugineo, pectore pilis nigris vestito alboque bifasciculato, abdomine pilis vestito, dorso albo quinquemaculato, ventre vitta arcuata alba utrinque ornata, antennis pedibusque nigris, alis limpidis basi nigro-fuscis costaque fuscis.*

Body black: front of the head clothed with white hairs: sides of the mouth and eyes piceous: mouth black, half the length of the body: feelers black, beset towards the base with black hairs and bristles: chest thickly clothed with white hairs, which have a tawny tinge on the disk; breast clothed with black hairs, and having a tuft of white hairs on each side; scutcheon dark ferruginous, piceous on the base: abdomen clothed with black hairs, and having five spots of snow-white hairs, one on each side at the base, and three in a row along the back; under-side adorned on each side with a curved stripe, formed by four spots of snow-white hairs: legs black, thinly beset with black bristles: wings colourless, blackish brown at the base, brown along the fore borders for three-fourths of the length and full half the breadth; wing-ribs piceous, each with a tuft of white hairs in front; veins tawny; poisers piceous. Length of the body 7 lines; of the wings 17 lines.

a. Odessa. Presented by Dr. Dowler.

**BOMBYLIUS flaviceps**, Macq. *Dipt. Exot.* ii. 1, 88, 4, pl. 6; f. 4, pl. 7, f. 5.

a. West Africa. Presented by Sir E. Belcher.

**BOMBYLIUS capensis**, Linn. *Syst. Nat.* ii. 1009, 3. *Mus. Lud. Ulr.* 423. *Fabr. Ent. Syst.* iv. 409, 7. *Syst. Antl.* 132, 14. *B. lateralis*, *Fabr. Syst. Antl.* 129, 3. *Wied. Dipt. Exot.* i. 165, 9. *Auss. Zweif.* i. 337, 10. *Macq. Dipt. Exot.* ii. 1, 89, 7, pl. 7, f. 5.

a. South Africa. Presented by Dr. A. Smith.

b. Cape.

**BOMBYLIUS pygmæus**, *Fabr. Mant. Ins.* ii. 367, 13. *Ent. Syst.* iv. 411, 19. *Syst. Antl.* 135, 32. *Wied. Auss. Zweif.* i. 351, 34. *Lam. Anim. sans Vert.* iii. 407, 4. *Kirby, North Amer. Zool. Ins.* 313, 2.

a. Nova Scotia. Presented by the Entomological Club.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by "G. Barnston, Esq.

**BOMBYLIUS pictus**, *Panz. Faun. Germ.* xxiv. 24. *Mikan. Monogr.* 32, pl. 2, f. 3. *Schell. Gen. Mouch.* pl. 34, f. 1. *Schrank. Faun. Boic.* iii. 2580. *Meig. Dipt.* ii. 198, 15. *Macq. IIist. Nat. Dipt.* i. 379, 9. *B. planicornis*, *Fabr. Ent. Syst. Supp.* 569. *Syst. Antl.* 129, 6. *Wied. Zool. Mag.* i. 2, 20.

a. Odessa. Presented by Dr. Dowler.

C. *The little cross-vein somewhat beyond two-thirds of the length of the discoidal areolet.* Group III.

**BOMBYLIUS micans**, *Fabr. Ent. Syst. Supp.* 569, 2. *Syst. Antl.* 129, 4. *Wied. Dipt. Exot.* i. 162, 3. *Auss. Zweif.* i. 332, 3. *Macq. Dipt. Exot.* ii. 1, 87, 1, pl. 7, f. 5.

a. South Africa. Presented by Dr. A. Smith.

b. Cape.

c. Cape. From Mr. Sowerby's collection.

D. *The little cross-vein somewhat before two-thirds of the length of the discoidal areolet.*

**BOMBYLIUS argentifer**, n. s., fem. *Niger, densissime albo pilosus, scutello rufo, antennis nigris, pedibus flavis, alis albis, maculis duabus parvis fuscis.*

Body black, most thickly clothed with pure white silvery hairs : mouth and feelers black ; the former much shorter than the chest : eyes bronze : scutcheon red : legs yellow, covered especially towards the hips with a white bloom, and beset with a few yellow bristles : wings white ; wing-ribs and veins tawny ; the two cross-veins in the

disk clouded with brown; poisers tawny. Length of the body 5 lines; of the wings 11 lines.

a. South Africa. Presented by Dr. A. Smith.

*BOMBYLIUS*, *ruficeps*, *Macq. Dipt. Exot.* ii. 1, 88, 5, *pl.* 7, *f.* 5.

a. South Africa. Presented by the Earl of Derby.

b. South Africa. Presented by Dr. A. Smith.

c. South Africa? From Mr. Children's collection.

*BOMBYLIUS tinctus*, n. s., fem. *Niger, pilis fulvis nigrisque vestitus, subtus cano alboque pilosus, scutello thoracisque lateribus rufopilosis, antennis nigris, pedibus ferrugineis, basi costaque nigrofuscis.*

Head black, and clothed with long black hairs above and in front, and with short red hairs about the base of the feelers, hoary and clothed with white hairs behind and beneath; hypostoma tawny: eyes red, with a bronze tinge: mouth black, a little shorter than the chest: feelers black, as long as the head; first joint thickly beset with hairs; second joint short; third joint slightly tapering from the base to the tip, longer than the first and the second; fourth joint very small: chest rich brown, clothed with short reddish brown hairs, and having a stripe of white hairs on each side; scutcheon adorned with red hairs: breast and under-side of abdomen hoary, and clothed with white hairs, the former having a tuft of red hairs on each side by the base of the wing: abdomen black, clothed with tawny hairs and with black bristles, which are most frequent towards the tip: legs ferruginous, clothed with white hairs and black bristles, the latter chiefly on the shanks; feet pubescent, piccous towards the tips: wings slightly gray, blackish brown at the base and along the fore borders; the dark colour occupies less than half the surface, its border is not clearly defined, and it blends imperceptibly with the gray; wing-ribs and veins piccous, the latter black towards the tips; poisers tawny. Length of the body 3 lines; of the wings 10 lines.

a. ———?

E. *The little cross-vein somewhat beyond one half of the length of the discoidal areolet.*

*BOMBYLIUS diagonalis*, *Hoffmansegg, Meig. Dipt.* ii. 189, 4, vii. 6, 7. *Macq. Hist. Nat. Dipt.* i. 377, 2. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 216, 1.

a. ———?



**BOMBYLIUS inornatus**, n. s., fem. *Niger, abdomine ferrugineo vitta dorsali nigra, antennis nigris basi ferrugineis, pedibus ferrugineis, genubus tarsisque piceis, alis subcinereis, basi et ad costam fulvis.*

Body black: head clothed with ferruginous hairs: mouth and feelers black; the former more than half the length of the body; the latter ferruginous at the base; first joint moderately long; second joint short; third joint linear, nearly twice the length of the first: chest and breast clothed with a few tawny hairs; the latter covered with a slight hoary bloom: abdomen ferruginous, with a black stripe on the back; this stripe is much dilated at the base of the abdomen, and somewhat less so on the borders of the second segment: legs ferruginous, thinly beset with short hairs and bristles; knees and feet piceous, the latter pubescent; wings slightly gray, tawny along the fore borders, and especially towards the base; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers yellow. Length of the body  $4\frac{1}{2}$  lines; of the wings 11 lines.

" ——— ?

F. *The little cross-vein at five-eighths of the length of the discoidal areolet.*

**BOMBYLIUS Servillei**, Macq. *Dipt. Exot.* ii. 1, 88, 3, pl. 7, f. 5.

a. South Africa. Presented by Dr. A. Smith.

**BOMBYLIUS nanus**, n. s. *Niger, pilis fulvis rufisque vestitus, pectore albo piloso, abdomine pilis flavis rufisque vestito subtus cano, antennis nigris apice piceis, femoribus flavis, tibiis ferrugineis, tarsis piceis, alis subcinereis, basi et ad costam fuscis.*

Body black, thickly clothed with bright tawny and red hairs: a tuft of black bristles on the crown of the head, whose front is thickly clothed with shining pale yellow hairs: feelers nearly as long as the head; first and second joints black, and thickly beset with black bristles; second joint much shorter than the first; third joint piceous, spindle-shaped, nearly as long as the first and the second; fourth joint very small, with two or three bristles at the tip: mouth black, shorter than the chest: eyes piceous: breast clothed with white hairs: abdomen with alternate bands of bright pale yellow and red hairs: under-side hoary: legs slightly clothed with bristles and hairs; thighs yellow, having a ferruginous stripe from near the base to the tips, which like the shanks, are also ferruginous; feet piceous; wings slightly gray, brown at the base and

along the fore borders till near the tips; the brown colour occupies rather less than half the surface of the wing; wing-ribs and veins piceous, the latter black towards the tips: poisers tawny. Length of the body  $2\frac{1}{2}$  lines: of the wings  $6\frac{1}{2}$  lines.

a. West Australia. From Mr. Clifton's collection.

G. *The little cross-vein at half the length of the discoidal areolet.*

**BOMBYLIUS medius**, Linn. *Syst. Nat.* ii. 1009. *Faun. Suec.* 1919. *Gmel. Ed. Syst. Nat.* v. 2902, 2. *Fabr. Sp. Ins.* ii. 473, 3. *Ent. Syst.* iv. 408, 3. *Syst. Antl.* 129, 5. *Müll. Natur.* v. 1008. *Deg. Ins.* vi. 107, 2, pl. 15, f. 12. *Schränk. Ins. Austr.* 1003. *Faun. Boic.* iii. 2578. *Berk. Syn.* i. 167. *Don. Brit. Ins.* v. 5, pl. 146, 1. *Stew. El.* 274. *Turt.* iii. 681. *Latr. Gen. Crust.* iv. 313. *Lam. Anim. sans Vert.* iii. 407, 2. *Fall. Dipt. Suec. Bomb.* 10, 2. *Meig. Dipt.* ii. 196, 13. *Macq. Hist. Nat. Dipt.* i. 378. *Zett. Dipt. Scand.* i. 189, 2. *Bombylius*, Harris, *Ex. pl.* 47, f. 1. *B. major*, Sam. *Ent. Comp.* 295, pl. 9, f. 10. *Wood, Ill. Lin. Gen. Ins.* ii. 106, pl. 71. *B. discolor*, Mikan. *Monogr.* 27, pl. 2, f. 1. *Meig. Klass. Zweif.* i. 178, 1, pl. 10, f. 8.

a. England.

b. France.

**BOMBYLIUS concolor**, Mikan, *Monogr.* 30, pl. 2, f. 2. *Schæff. Icon. pl.* 78, f. 3. *Latr. Gen. Cr.* iv. 314. *Meig. Dipt.* ii. 197, 14. *Macq. Hist. Nat. Dipt.* i. 378, 7.

a. France? From Mr. Children's collection.

b. Albania. Presented by W. W. Saunders, Esq.

c. ———?

**BOMBYLIUS intermedius**, n. s. *Niger, pilis fulvis, setisque nonnullis nigris vestitus, abdominis apice pilis rufescentibus ornato, pedibus rufis, antennis femoribusque nigris, alis limpidis fusco decem-maculatis necnon basi et ad costam fluvo-fuscis.*

Nearly allied to *B. medius*, but the mouth is a little longer: body black, thickly clothed with tawny hairs, among which a few longer and slender black bristles are scattered, especially towards the tip of the abdomen: head clothed with black hairs, and having some tawny hairs on the front: mouth black, as long as the body: feelers black: eyes piceous: tip of the abdomen adorned with a tuft of reddish hairs: legs red, beset with black bristles; hips and thighs black, the latter red at the tips: wings colourless, yellowish

brown at the base and along the fore borders, and each having ten small brown spots which cloud the veins on the white part; wing-ribs and veins piceous; poisers tawny. Length of the body 4 lines; of the wings 12 lines.

a. ——— ?

**BOMBYLIUS fulvus**, *Wied. Auss. Zweif.* i. 336, 8.

a. Georgia. From Mr. Abbot's collection.

**BOMBYLIUS favillaceus**, *Meig. Dipt.* ii. 211, 37. **B. cinerascens**, *Meig. Klass. Zweif.* i. 185, 15.

a. France.

**BOMBYLIUS mexicanus**, *Wied. Dipt. Exot.* i. 166, 10. *Auss. Zweif.* i. 338, 11.

a. Florida. Presented by E. Doubleday, Esq.

**BOMBYLIUS ctenopterus**, *Mikan, Monogr.* 45, 8, pl. 3, f. 8. *Meig. Dipt.* ii. 204, 24. *Macq. Hist. Nat. Dipt.* i. 382, 21. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 222, 15.

a. France.

**BOMBYLIUS tibialis**, n. s. *Niger, pilis fulvis vestitus, capite pilis nonnullis nigris vario, antennis pedibusque nigris, tibiis fulvis, alis limpidis, basi et ad costam subfulvis.*

Body black, thickly clothed with tawny hairs, which are rather longer on the abdomen than on the chest: crown of the head beset with some black hairs: eyes black: mouth much longer than the chest; lip black: feelers black; first joint linear; second joint not half the length of the first; third joint linear, obconical at the base, tapering from two-thirds of the length to the tip, longer than the first and second joints: legs black; thighs and shanks armed with black spines; thighs clothed with pale tawny hairs; shanks tawny; feet clothed with short black hairs: tips of fore thighs and of middle thighs tawny: wings colourless, with a tawny tinge at the base and along the fore borders for a little more than two-thirds of the length; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny, with ferruginous knobs. Length of the body  $3\frac{1}{2}$  lines; of the wings 10 lines.

a. ——— ?

**BOMBYLIUS semifuscus**, *Meig. Dipt.* ii. 206, 27.

a. ——— ?

**BOMBYLIUS ornatus**, Wied. *Auss. Zweif.* i. 345, 23. *Macq. Dipt. Exot.* ii. 1, 91, 12.

a. South Africa. Presented by Dr. A. Smith.

b. Congo. Presented by Sir J. Richardson.

c. ——— ? From Mr. Children's collection.

**BOMBYLIUS matutinus**, n. s., mas. *Niger, pilis fulvis vestitus, antennis pedibusque nigris, alis subcinereis basi et ad costam fuscis.*

Body black, clothed with tawny hairs : eyes red, with a bronze tinge : hypostoma tawny : mouth more than half the length of the body : feelers black ; first joint linear, clothed with tawny hairs ; second joint not half the length of the first ; third joint tapering from the base to the tip, longer than the first and the second : legs black, clothed with short tawny hairs : wings slightly gray, brown at the base and along the fore border for two-thirds of the length ; wing-ribs and veins piceous ; poisers tawny, with piceous knobs. Length of the body 3 lines ; of the wings 8 lines.

a. New Holland. Presented by the Haslar Hospital.

**BOMBYLIUS minimus**, *Fabr. Ent. Syst.* iv. 409, 10. *Syst. Antl.* 133, 19. *Gmel. Ed. Syst. Nat.* v. 2903, 7. *Fall. Bombyl.* 10, 4. *Meig. Dipt.* ii. 208, 31. *Macq. Hist. Nat. Dipt.* i. 380, 14. *B. fulvus*, *Meig. Dipt.* ii. 205, 25.

a. ——— ?

H. *The little cross-vein somewhat before half the length of the discoidal areolet.*

**BOMBYLIUS major**, *Linn. Syst. Nat.* ii. *Faun. Suec.* 1918. *Gmel. Ed. Syst. Nat.* v. 2902, 1. *Fabr. Sp. Ins.* ii. 472, 1. *Ent. Syst.* iv. 407, 1. *Syst. Antl.* 128, 1. *Fall. Bombyl.* 9, 1. *Geoff. Ins.* ii. 466, 1. *Latr. Gen. Crust.* iv. 313. *Cons. Gén.* 443. *Lam. Anim. sans Verteb.* iii. 407, 1. *Schæf. Icon. pl.* 121, f. 3. *Schell. Gen. Mouch. pl.* 34, f. 2. *Schrank. Ins. Austr.* 1002. *Herbst, Gem.* viii. pl. 347, f. 1. *Berk. Syn.* i. 167. *Don. Brit. Ins.* ii. 79, pl. 66. *Stew. El.* 273. *Turt.* iii. 681. *Wied. Zool. Mag.* i. 2, 20. *Meig. Dipt.* ii. 190, 5. *Macq. Hist. Nat. Dipt.* i. 377, 1. *Kirby, North Amer. Zool. Ins.* 312, 1. *Zeller, Isis*, 1840, 21, 6. *Zett. Dipt. Scand.* i. 188, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 216, 2. *B. variegatus*, *Deg. Ins.* vi. 107, 1, pl. 15, f. 10. *B. sinuatus*,

*Mikan, Monogr. 35, pl. 2, f. 4. Meig. Klass. Zweif. i. 179, 4.*  
*B. vicinus, Macq. Dipt. Exot. ii. 98, 30. Bombylius, Harris,*  
*Ex. pl. 47, f. 1.*

- a. England.
- b. France.
- c. New York. Presented by the Entomological Club.
- d. Trenton. Presented by E. Doubleday, Esq.
- e. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- f. Nova Scotia. From Lieut. Redman's collection.

*BOMBYLIUS fimbriatus, Gürtl. Meig. Dipt. ii. 191, 6. Gim. Bull.*  
*Soc. Imp. Nat. Mosc. 1847, 1, 217, 3.*

- a. France?
- b. Spain.

*BOMBYLIUS cinerascens, Mikan, Monogr. 60, 10, pl. 3, f. 10.*  
*Meig. Dipt. ii. 212, 58.*

- a. Italy. From Dr. Leach's collection.

*BOMBYLIUS fulvus, Wied. Dipt. Exot. i. 172, 22. Auss. Zweif. i.*  
*347, 27.*

- a. Florida. Presented by E. Doubleday, Esq.

1. *The little cross-vein at six-elevenths of the length of the discoidal areolet.*

*BOMBYLIUS ater, Linn. Syst. Nat. ii. 1010, 5. Fabr. Sp. Ins. ii.*  
*473, 6. Ent. Syst. iv. 410, 12. Syst. Antl. 133, 22. Gmel.*  
*Ed. Syst. Nat. v. 2903, 5. Mikan, Monogr. 47, pl. 3, f. 9.*  
*Schæff. Icon. pl. 79, f. 6. Schrank. Faun. Boic. iii. 2582.*  
*Ins. Austr. 1006. Meig. Dipt. ii. 195, 11. Macq. Hist. Nat.*  
*Dipt. i. 378, 4.*

- a. France?
- b. Ukraine. Presented by Dr. Dowler.

*BOMBYLIUS holosericeus, Megerle, Meig. Dipt. ii. 193, 9.*

- a. ———?

*BOMBYLIUS dimidiatus, Megerle, Meig. Dipt. ii. 192, 8. Gim. Bull.*  
*Soc. Imp. Nat. Mosc. 1847, 1, 217, 4.*

- a. Ukraine. Presented by Dr. Dowler.

*BOMBYLIUS nubilus? Mikan, Monogr. 40, 6, pl. 2, f. 6. Meig.*  
*Dipt. ii. 212, 39.*

- a. ———?

**J. The little cross-vein at five-elevenths of the length of the discoidal areolet.**

**BOMBYLIUS maculatus**, *Fabr. Syst. Ent.* 823, 6. *Mant. Ins.* ii. 366, 9. *Ent. Syst.* iv. 410, 13. *Syst. Antl.* 134, 25. *Wied. Dipt. Exot.* i. 169, 17. *Auss. Zweif.* i. 342, 10.

a. Madras. Presented by Walter Elliott, Esq.

**BOMBYLIUS versicolor**, *Fabr. Syst. Antl.* 131, 12. *Meig. Dipt.* ii. 213, 41.

a. ——— ?

**BOMBYLIUS dilutus**, *Hoffmansegg, Meig. Dipt.* ii. 189, 3.

a. France.

b. ——— ?

**BOMBYLIUS pallens** ? *Hoffmansegg, Meig. Dipt.* ii. 214, 43.

a. ——— ?

**BOMBYLIUS posticus**, *Fabr. Syst. Antl.* 131, 13. *Wied. Zoot. Mag.* i. 2, 22. *Meig. Dipt.* ii. 200, 17. *Macq. Hist. Nat. Dipt.* i. 380, 12. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, i. 220, 10.

a. Lyons, France. Presented by F. Walker, Esq.

**BOMBYLIUS cruciatus**, *Fabr. Ent. Syst. Suppl.* 569. *Syst. Antl.* 130, 7. *Latr. Gen. Crust.* iv. 314. *Meig. Klass. Zweif.* i. 190, 1. fem. *Macq. Hist. Nat. Dipt.* i. 379, 10. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, i. 220, 9.

a. France.

**BOMBYLIUS varius**, *Fabr. Syst. Antl.* 132, 17. *Wied. Dipt. Exot.* i. 163, 6. *Auss. Zweif.* i. 335, 7.

a. North America.

**K. The little cross-vein at four-sevenths of the length of the discoidal areolet.**

**BOMBYLIUS vulpinus**, *Hoffmansegg, Meig. Dipt.* ii. 200, 18.

a. France.

b. Switzerland. Presented by Dr. Dowler.

c. Tyrol. Presented by Dr. Dowler.

d. Ukraine. Presented by Dr. Dowler.

**BOMBYLIUS senex** ? *Hoffmansegg, Meig. Dipt.* ii. 216, 47.

a. ——— ?

L. The little cross-vein somewhat beyond one-third of the length of the discoidal-areolet.

**BOMBYLIUS ardens**, n. s. *Niger, pilis fulvis vestitus, capitis fronte pilis fuscis hirsuto, rostro corporis dimidio longiore, antennis nigris, pedibus ferrugineis, tarsis piceis, alis limpidis basi nigro-fuscis et ad costam pallide fuscis.*

Body black, clothed with long bright tawny hairs: head clothed with brown hairs in front and about the base of the feelers, which, like the mouth, are black; the latter is more than half the length of the body: eyes piceous: legs ferruginous, clothed with black hairs and bristles; thighs darker than the shanks; feet piceous: wings colourless, dark brown at the base, and slightly so along the fore borders; the border of this brown is very oblique, and it slants towards the hinder base of the wing; its outskirts are confined to the sides of the cross-veins; wing-ribs and veins piceous; poisers tawny. Length of the body 3 lines; of the wings 7 lines.

a. East Indies. From Archdeacon Clerk's collection.

**BOMBYLIUS sericeus**, *Meig. Dipt.* ii. 203, 23. *Macq. Hist. Nat. Dipt.* i. 382, 20. *B. canescens?* *Mikan, Monogr.* 54, 12, pl. 3, f. 12. *B. nubilus*, *Meig. Klass. Zweif.* i. 181, 6.

a. South of France. Presented by F. Walker, Esq.

**BOMBYLIUS minor**, *Linn. Faun. Suec.* 1920. *Gmel. Ed. Syst. Nat.* v. 2903, 4. *Fabr. Sp. Ins.* ii. 473, 5. *Ent. Syst.* iv. 409, 9. *Syst. Antl.* 132, 18. *Fall. Dipt. Suec. Bomb.* 10, 3. *Latr. Gen. Crust.* iv. 314. *Lam. Anim. sans Verteb.* iii. 407, 3. *Schæff. Icon. pl.* 112, f. 6. *Herbst, Gem.* viii. pl. 347, f. 3. *Schrank. Ins. Austr.* 1004. *Meig. Dipt.* ii. 201, 20. *Macq. Hist. Nat. Dipt.* i. 380, 13. *Zett. Dipt. Scand.* i. 191, 5. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 221, 12. *B. venosus*, *Mikan, Monogr.* 42. *Klass. Zweif.* i. 180, 5.

a. England.

b. France.

c. South of France. Presented by F. Walker, Esq.

**BOMBYLIUS cinereus**, *Meig. Dipt.* ii. 212, 40.

a. France.

**BOMBYLIUS pumilus**, *Hoffmansegg, Meig. Dipt.* ii. 209, 33. *B. sulphureus*, *Mikan, Monogr.* 52, 11, pl. 3, f. 11.

a. France.

**BOMBYLIUS nitidulus**, *Fabr. Ent. Syst.* iv. 409, 8. *Syst. Antl.* 132, 15. *Meig. Dipt.* ii. 202, 22, pl. 18, f. 5, 6. *Macq. Hist. Nat. Dipt.* i. 382, 19. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 222, 14. *B. Diadema*, *Meig. Klass. Zweif.* i. 182, 8. *B. caudatus*, *Meig. Klass. Zweif.* i. 184, 12.

a. ——— ?

**BOMBYLIUS hypoleucus**, *Wied. Dipt. Exot.* i. 168, 15. *Auss. Zweif.* i. 340, 16.

a. South Africa. Presented by Dr. A. Smith.

**BOMBYLIUS stylicornis**, *Macq. Hist. Nat. Ins. Dipt.* i. 381, 18. *Dipt. Exot.* ii. 1, 92, 14, pl. 7, f. 2.

a. South Africa. Presented by Dr. A. Smith.

**BOMBYLIUS latifrons**, *Macq. Webb. et Berth. Hist. Nat. des Carr. Dipt. Exot.* ii. 1, 94, 20, pl. 6, f. 6, pl. 7, f. 2.

a. South Africa. Presented by Dr. A. Smith.

**BOMBYLIUS hircanus**, *Pallas, Wied. Zool. Mag.* ii. 22. *Dipt. Exot.* i. 166, 11. *Auss. Zweif.* i. 338, 12.

a. ——— ?

**BOMBYLIUS pallidulus**, n. s., mas. *Niger, pilis flavis vestitus, capite supra pilis fuscis ornato, antennis nigris, pedibus fulvis, tarsis piceis, alis limpidis.*

Body black, very thickly clothed with pale yellow hairs, which are longer on the abdomen than on the head and on the chest: head covered with pale silky down, having some black hairs on the crown, and clothed with pale brown hairs on the front: eyes bronze: mouth as long as the chest; lip black: feelers black; first joint linear; second joint not half the length of the first; third joint tapering from the base to the tip, a little longer than the first: legs pale tawny, clothed with very short hairs of the same colour; feet piceous, tawny at the base: wings colourless; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers pale tawny. Length of the body 4 lines; of the wings 9 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.



*L. The little cross-vein at one-third of the length of the discoidal areolet.*

**BOMBYLIUS vetustus**, n. s., mas. *Cinereus, pilis albis vestitus, abdominis basi et apice nigro fasciculatis, antennis nigris, femoribus canis, tibiis fulvis, tarsis nigris, alis cinereis.*

Body gray, most thickly clothed with white hairs: eyes piceous: feelers black, like those of *B. crassus*; first and second joints clothed with black hairs: mouth black, as long as the chest; lip or sucker pubescent; labrum black, linear, much shorter than the tongue, which is tawny, but for one-third of its length from the tip is black; maxillæ tawny, as long as the labrum; palpi small, black, hairy: disk of the chest clothed with gray hairs: abdomen with a few hairs at the base, but thickly fringed on each side and towards the tip; each side has a small tuft of black hairs in the middle, and a large tuft of black hairs at the tip; there are a few black and tawny hairs mingled with the white hairs on the back: legs thinly clothed with hairs and bristles; hips and thighs hoary; shanks tawny, with a slight hoary bloom; feet and tips of the shanks black: wings gray; wing-ribs and veins piceous, the latter black towards the tips; poisers ferruginous, with piceous knobs. Length of the body 5 lines; of the wings 14 lines.

a. New Holland. From Mr. Lambert's collection.

b. New Holland. From Mr. Argent's collection.

**BOMBYLIUS platyurus**, n. s. *Niger, pilis fulvis vestitus, pilisque nonnullis rufis et albis ornatus, abdomine pilis nigris fasciato, apice nigro utrinque fasciculato, pectore et ventre canis illoque pilis albis vestito, antennis nigris, pedibus piceis, elis cinereis, basi et ad costam flavo-fuscis.*

Head hoary, clothed with white hairs, having a few red hairs on the front, and a small tuft of black hairs on the crown: mouth black, as long as the chest: feelers black; first and second joints thickly beset with black bristles; third joint slender, slightly tapering from the base to the tip, longer than the first and second joints; fourth joint very small: chest black, thickly clothed with tawny hairs, among which a few red hairs are mingled, and having a few hoary hairs on each side and in front: breast hoary, clothed with white hairs: abdomen black, clothed with white and longer red hairs, and having a black band across the back, and a thick tuft of black hairs on each side at the tip; under-side hoary, with black tufts at the tip, but no band; legs piceous, clothed with black hairs, and beset with red bristles: wings gray, yellowish brown at the base,

and more slightly so along the fore borders for three-fourths of the length; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body 6 lines; of the wings 16 lines.

a. West Australia. From Mr. Clifton's collection.

**BOMBYLIUS crassus**, n. s., fem. *Cinereus, pilis flavis vestitus, antennis nigris, pedibus fulvis, alis cinereis, basi costâ maculisque quatuor nigro-fuscis.*

Body gray, thickly clothed with pale yellow hairs: eyes dark red: feelers black, as long as the head; first and second joints thickly clothed with yellow hairs; second joint much shorter than the first; third joint much longer than the first and the second, spindle-shaped for two-thirds of its length, linear thence and very slender to the tip: mouth black, half the length of the body; maxillæ yellow; hypostoma tawny: legs tawny, clothed with yellow hairs and black bristles; hips gray; feet black towards the tips: wings gray, blackish brown at the base and along the fore borders to the tips, which are paler; four small blackish spots cloud the veins in the gray of the wings; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body 4—5 lines; of the wings 10—12 lines.

a. New Holland. Presented by the Haslar Hospital.

M. *The little cross-vein somewhat before one-third of the length of the discoidal areolet.*

**BOMBYLIUS scutellatus**, Macq. *Dipt. Exot.* ii. 1, 94, 18, pl. 7, f. 2.

a. South Africa. Presented by Dr. A. Smith.

One wing of the specimen of this species has the areolet at the tip of the wing subdivided by a little cross-vein.

**BOMBYLIUS cephalotes**, n. s., fem. *Niger, pilis fulvis subtus pallidioribus vestitus, capitis vertice pilis nigris fasciato, antennis nigris, pedibus fulvis, femoribus nigris, alis subcinereis, basi et ad costam fulvis.*

Resembles *B. hircanus*. Body black: head very broad, thickly clothed with long tawny hairs, and having a band of black hairs between the eyes; under-side clothed with white hairs: eyes piceous: mouth black, much shorter than the chest: feelers black; third joint slightly tapering from the base to the tip, shorter than the first and the second joints: chest thickly clothed with rather dark tawny hairs; breast clothed with white and pale yellow hairs,

and the sides having hairs of an intermediate colour: abdomen also thickly clothed with long dark tawny hairs, which form tufts on each side and at the tip, where they are most mixed with long black hairs; the under-side has on each side of the base a thick tuft of shining pale yellow hairs: legs tawny, beset with bristles of the same colour; hips and thighs black; tips of the latter tawny; feet darker than the shanks: wings slightly gray, tawny at the base and along the fore borders; wing-ribs and veins ferruginous, the latter piceous towards the tips. Length of the body  $3\frac{1}{2}$  lines; of the wings 10 lines.

a. ———?

**BOMBYLIUS solitus**, n. s. *Niger, pilis flavis vestitus, capite pilis nigris vario, antennis nigris, pedibus fulvis, tibiis apice piceis, tarsis nigris, alis limpidis.*

Body black, thickly clothed with shining pale yellow hairs, which are longest on the abdomen: crown of the head and clypeus beset with black hairs: eyes very dark red: mouth much longer than the chest; tips black: feelers black; first and second joints linear; second joint about half the length of the first; third joint spindle-shaped for two-thirds of the length, thence to the tip compressed and linear, and ending in a spine: legs tawny; thighs and shanks clothed with short pale yellow hairs, and armed with black spines; tips of the shanks piceous; feet black, clothed with short black hairs and bristles: wings colourless; wing-ribs ferruginous; veins piceous, ferruginous at the base, black towards the tips; poisers pale tawny. Length of the body 3 lines; of the wings 8 lines.

a. Florida. Presented by E. Doubleday, Esq.

†† *Discoidal areolet open.*

**BOMBYLIUS altus**, n. s., fem. *Cinereus, pilis fulvis et nonnullis rufis nigrisque vestitus, subtus albo pilosus, antennis nigris, pedibus ferrugineis, tarsis piceis, alis cinereis basi et ad costam fulvis.*

Body gray: head clothed with tawny hairs, and having a few black hairs on the crown; under-side thickly covered with white hairs: feelers and mouth black, the latter about half the length of the chest: chest very thickly covered with short tawny hairs, which are paler on each side as they approach the white hairs of the breast; the sides are also adorned with red hairs, and a few red and black hairs are scattered over the chest and the breast: abdomen

thickly clothed with tawny hairs, which are very bright on each side towards the tip; its back is thinly covered with black hairs which are most frequent at the tip; the under-side, with the exception of the sides and the tip, is clothed with white hairs: legs ferruginous, covered with a hoary bloom, and clothed with short whitish hairs and stout black bristles: feet piceous towards the tips: wings gray, tawny at the base and along the sides of the veins of the fore borders for three-fourths of the length; wing-ribs ferruginous; veins piceous, black towards the tips; poisers ferruginous, with yellow tips. Length of the body 5 lines; of the wings 14 lines.

a. Swan River. Presented by Sir J. Richardson.

*BOMBYLIUS auratus*, n. s., mas. *Niger, pilis aureis vestitus, subtus canus, abdomine flavo univittato pilisque nigris apice vestito, antennis nigris, pedibus ferrugineis, genibus tibiis apice tarsisque piceis, alis cinereis basi ferrugineis.*

Body black, thickly clothed with golden hairs, which are longest and brightest on each side and beneath: a tuft of black bristles on the crown of the head, and another on the first and the second joints of the feelers, which are also black: mouth black, much more than half the length of the body; palpi black, hairy, longer than those of *B. vetustus*: eyes dark green with a bronze tinge: breast and under-side of the abdomen hoary: back of the abdomen hoary towards the tip, where it has very few yellow hairs, but is thinly covered with long black hairs, and has a stripe of short shining pale golden hairs; last segment ferruginous: legs bright tawny, clothed with golden hairs and red bristles; the hairs abound most on the thighs, the bristles on the shanks, whose tips and the knees are piceous; the feet are also piceous, and clothed with short hairs of the same colour: wings rather dark gray, bright ferruginous at the base, more slightly so along the sides of the veins of the fore borders towards the tips, where this colour gradually disappears; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with brighter and paler tips. Length of the body 5 lines; of the wings 16 lines

a. Van Dieman's Land. Presented by the Earl of Derby.

b. West Australia. From Mr. Clifton's collection.

*BOMBYLIUS rutilus*, n. s. *Cinereus, pilis luteis vestitus, subtus canus pilisque flavis vestitus, scutello rufo, abdomine flavo univittato, antennis nigris basi cinereis, pedibus fulvis, alis cinereis basi ferrugineis.*

Body gray: head clothed with brown hairs on the crown, with tawny hairs on the front, and with pale yellow hairs beneath, where

it is white: eyes green, with a bronze tinge: feelers black, like those of *B. crassus*, gray at the base: mouth black, rather shorter than the chest, dark ferruginous at the base: chest and abdomen clothed with orange hairs, which are longest, brightest, and thickest on each side of the tip of the latter, where they are mingled with black hairs: under-side hoary, and clothed with pale yellow hairs; scutcheon red; a stripe of pale yellow shining hairs on the back of the abdomen: legs bright tawny, clothed with short yellow hairs, and beset with a few red bristles: wings rather dark gray, having at the base a ferruginous tinge, which may be slightly traced along the fore borders; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny, with brighter tips. Length of the body 5 lines; of the wings 12 lines.

a. Sydney, New South Wales. Presented by Dr. A. Sinclair.

*BOMBYLIUS pinguis*, n. s., mas. *Cinereus, pilis rufo-albidis vestitus, scutello ferrugineo, abdomine pilis fulvis nonnullisque nigris longioribus vestito, antennis nigris basi cinereis, pedibus rufis, femoribus plerumque nigris, alis cinereis basi fulvis.*

Body gray: head hoary, clothed with reddish white hairs, having a tuft of black hairs on the crown, and another of tawny hairs on the front, while long black and reddish hairs are mingled with the white hairs which cover the under-side: eyes piceous: feelers black, nearly as long as the head; first and second joints gray; second joint not half the length of the first; third joint slightly tapering from the base to the tip, longer than the first and the second: mouth black, half the length of the chest: chest clothed with reddish white hairs; scutcheon ferruginous: breast clothed with yellowish white hairs: abdomen clothed with tawny hairs, which are thickest on each side, and longer black hairs are scattered among them, especially towards the tip; under-side mostly clothed with whitish hairs: legs red, covered with yellow hairs and black bristles; hips, knees, fore thighs, and middle thighs for two-thirds of the length, and hind thighs at the base black: wings gray, tawny at the base, and along the sides of the veins on the fore borders; this tinge disappears at the tips and along the hind borders: wing-ribs and veins piceous, the latter darker towards the tips; poisers tawny. Length of the body 5 lines; of the wings 11 lines.

a. Swan River. Presented by Sir J. Richardson.

**BOMBYLIUS decoratus**, n. s., mas. et fem. *Cinereus, pilis fuscis fulvis flavis albisque vestitus, thorace cano quadrivittato, scutello rufo, pectore cano, abdomine flavo univittato pilisque fuscis et albis utrinque fasciculato, antennis nigris, basi pedibusque ferrugineis, tibiis fulvis, alis subcinereis, basi costâ maculisque duabus subcinereis.*

Body gray: head with a small tuft of brown hairs on the crown about the eyelets, clothed in front with brown and tawny hairs, and beneath with white hairs: feelers black, like those of *B. crassus*; first and second joints ferruginous: mouth black, piceous towards the base, shorter than the chest: palpi tawny, hairy: eyes green, with a bronze tinge: chest clothed with tawny and yellow hairs, and having four hoary stripes, the outer stripes are clothed with white hairs, and on each side below them there is a tuft of brownish and red hairs: breast hoary, and clothed with pale yellow hairs: scutcheon dark red: abdomen with a stripe of pale yellow hairs on the back, which is clothed with brown hairs, and there are thick tufts of reddish brown and white hairs on each side and at the tip; the disk of the under-side is clothed with short red hairs: legs ferruginous, clothed with yellow hairs and darker bristles; shanks tawny, with ferruginous tips: wings like those of *B. major*, slightly gray, brown at the base and along the fore borders till very near the tips; this brown hue passes into dark gray towards the tip, but retains its own colour, where it joins the paler gray part, it occupies rather less than half the surface, decreases in breadth from the base to the tip, and has three or four curves along the gray part; there is also a small brown spot on the vein at the tip of the wing; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers yellow, shaded here and there with darker colour. Length of the body 5—5½ lines; of the wings 12—13 lines.

a. West Australia. From Mr. Clifton's collection.

**BOMBYLIUS tetratrichus**, n. s. *Cinereus, subtus canus pilisque albis vestitus, thorace flavo piloso, abdomine fulvo piloso apicque fusco utrinque fasciculato, pedibus fulvis, tarsis piceis, alis cinereis ad costam fulvescentibus.*

Head wanting: chest gray, most thickly clothed with shining pale yellow hairs, which are white near their roots: breast hoary, and very thickly clothed with shining white hairs: abdomen clothed with tawny hairs, which are longer than those of the chest, and there is a thick tuft of long brown hairs on each side at its tip; under-side hoary, and thickly clothed with silky white hairs: legs tawny, clothed with pale yellow hairs and with a few dark tawny

bristles; hips black; thighs with a white bloom, paler than the shanks; feet piceous; wings gray, with a dark tawny tinge along two-thirds of the fore borders; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with bright yellow tips. Length of the body 5 lines; of the wings 12 lines.

a. Swan River. Presented by Sir J. Richardson.

**BOMBYLIUS immutatus**, n. s., mas. *Niger, pilis flavis vestitus, antennis femoribusque nigris, tibiis ferrugineis, tarsis piceis, alis limpidis basi costaque fulvis.*

Body black, with a gray bloom, most thickly covered with pale yellow hairs: there are a few black hairs on the crown of the head, which is covered with more and longer black hairs about the base of the feelers; the latter are black; the third joint slightly tapers from the base to the tip, and is rather shorter than the first and the second: mouth black, as long as the chest: palpi also black, and more than one-third of the length of the mouth: eyes dark red, with a bronze tinge: legs ferruginous, with a few black bristles which are mostly on the shanks; hips and thighs, excepting the tips of the latter, black and covered with a hoary bloom; feet hairy, piceous: wings colourless, tawny at the base and on the fore borders for two-thirds of the length; wing-ribs and veins tawny, the latter black towards the tips; poisers tawny, their knobs mostly piceous. Length of the body 4 lines; of the wings 10 lines.

a. West Australia. From Mr. Clifton's collection.

**BOMBYLIUS mystax**, Wied. Zool. Mag. ii. 42. *Dipt. Exot.* i. 171, 20. *Auss. Zweif.* i. 346, 25.

a. Cape.

**BOMBYLIUS primogenitus**, n. s., mas. *Niger, pilis ferrugineis vestitus, capite pilis albis fulvis nigrisque ornato, antennis nigris, pedibus fulvis, femoribus basi nigris, tarsis piceis, alis subcine-reis basi et ad costam fuscis.*

Body black: head rather broad, clothed with tawny hairs behind, with black hairs on the crown, and with white hairs on the front and beneath: eyes red: mouth rather shorter than the chest: feelers black; second joint not one-third of the length of the first; third joint very slightly tapering from the base to tip, longer than the first and the second: chest and breast clothed with bright ferruginous hairs: breast clothed with hoary hairs: abdomen clothed with black hairs at the tip: legs tawny and clothed with short tawny bristles; thighs towards the base and hips black, clothed with long white hairs; feet piceous towards the tips: wings pale gray,

brown at the base and along the fore borders to the tips, and for one-third of the breadth; wing-ribs and veins black, the latter black towards the tips; poisers bright yellow. Length of the body 3 lines; of the wings 6 lines.

a. Swan River. Presented by Sir J. Richardson.

*BOMBYLIUS sulphureus*, *Fabr. Syst. Antl.* 133, 20. *Meig. Dipt.* ii. 210, 34, *pl.* 18, *f.* 10. *Macq. Hist. Nat. Dipt.* i. 383, 23.  
*B. flavus*, *Meig. Klass. Zweif.* i. 184, 13.

a. South of France. Presented by F. Walker, Esq.

b. ——— ?

*BOMBYLIUS antecedens*, n. s., mas. *Niger, pilis canis vestitus, capite setis nigris armato, antennis pedibusque nigris, alis subcinereis.*

Body black, thickly clothed with long shining hoary hairs: eyes red: front and clypeus thickly beset with black bristles: mouth much more than half the length of the body; lip black: feelers black; first joint linear; second joint not half the length of the first; third joint much longer than the first and the second; straight beneath, forming an obtuse angle above, where it is furnished with some long black hairs: legs black, clothed with some very short black hairs: wings tinged with gray; fore borders slightly tinged with tawny colour; wing-ribs and veins piceous, the latter black towards the tips; poisers yellow, very long, with black knobs. Length of the body 2 lines; of the wings 5 lines.

a. New Holland. From Mr. Lambert's collection.

**\*\* Cross-veins along the hind border of the wing forming an unbroken line.**

*BOMBYLIUS histrio*, n. s., mas. *Niger, scutello rufo, pectore cinereo abdomine fasciis interruptis rufis, antennis nigris apice piceis, pedibus ferrugineis, tarsis piceis, alis limpidis, basi ferrugineis fuscoque fasciatis.*

Head black, clothed with tawny hairs, having a small tuft of short black bristles about the eyelets, and a larger tuft of longer black hairs about the feelers which are black; first joint linear; second joint not half the length of the first; third joint piceous, very small; fourth joint much longer than all the preceding joints, spindle-shaped for about half its length, and thence narrower and slightly tapering to the tip: mouth black, much more than half the length of the body: eyes bronze: chest black, clothed especially on each side with tawny hairs; scutcheon red: breast gray, clothed



with pale yellow hairs: abdomen black, clothed on each side with long tawny hairs, and having a few black hairs towards the tip; along the hind borders of the segments are red bands interrupted in the middle, they are less apparent beneath: legs ferruginous, with but few hairs and bristles; feet piceous towards the tips: wings colourless, bright tawny at the base, near which there is a broad blackish brown band; wing-ribs piceous; veins ferruginous, paler where they cross the tawny colour, piceous towards the tips; poisers tawny. Length of the body 6 lines; of the wings 16 lines.

*a.* ——— ?

### PHTHIRIA, Meigen.

#### A. Two submarginal areolets.

PHTHIRIA minuta, *Latr. Gen. Crust.* iv. 314. *Cons. Gén.* 443.  
*Meig. Dipt.* ii. 219, 2. *Macq. Hist. Nat. Dipt.* i. 393, 3.  
*Volucella minuta, Fabr. Syst. Antl.* 115, 6.

*a.* France.

PHTHIRIA pulicaria, *Meig. Dipt.* ii. 219, 3. *Macq. Hist. Nat. Dipt.* i. 393, 4. *Zeller, Isis*, 1840, 23, 3. *Zett. Dipt. Scand.* i. 194, 1. *Gim. Bull. Soc. Imp. Nat. Mosc.* 1847, 1, 223, 1. *Bombylius pulicarius, Mik. Monogr.* 58, 14, pl. 4, f. 14. *Volucella pygmæa, Fabr. Syst. Antl.* 115, 5. *V. campestris, Fall. Dipt. Succ. Bomb.* 11, 1. *Phthiria nigra, Meig. Klass. Zweif.* i. 193, 2. *P. pygmæa, Latr. Gen. Crust.* iv. 314.

*a.* England.

PHTHIRIA scutellaris, *Hoffmansegg, Meig. Dipt.* ii. 226, 4. *Macq. Hist. Nat. Dipt.* i. 393, 2.

*a.* South of France. Presented by F. Walker, Esq.

#### B. Three submarginal areolets, but the cross-rein is partly wanting, and the division is incomplete.

PHTHIRIA punctipennis, n. s., mas. et fem. *Fusca* (mas.) *aut fulra* (fem.) *capite albo maculis fuscis ornato, abdomine mari fasciis nonnullis albis, antennis pedibusque fulvis, tibiis apice tarsisque piceis, alis subcinereis fusco maculatis.*

*Male.*—Body brown: head white, shining brown on the crown, and with two-brown spots on each side: eyes red: lip black, longer

than the body: feelers dark tawny; first and second joints very short; third joint linear, rather broader than the first and the second, and much more than twice their length: chest with a broad yellowish white stripe on each side, and some slight traces of stripes on the back: breast partly ferruginous: abdomen with a yellowish white band on the hind border of each segment: legs tawny; feet and tips of the shanks piceous; wings slightly gray, each with nine or ten brown spots; fore borders brown from the middle to the tips; wing-ribs and veins piceous, the latter black towards the tips; poisers yellow. *Fem.*—Like the male, but of a bright tawny colour where the male is brown: abdomen dark tawny; bright tawny at the base: legs paler: wings with fewer and smaller spots. Length of the body  $\frac{3}{4}$ — $1\frac{1}{4}$  line; of the wings  $2\frac{1}{2}$ —6 lines.

a. Georgia. From Mr. Abbot's collection. •

### GERON, *Hoffmannsegg*.

GERON holosericeus, n. s., mas. *Niger, pilis albis cinereisque vestitus, antennis pedibusque nigris, tibiis ferrugineis, alis limpidis.*

Body black: head thickly clothed with white hairs behind, and adorned with silvery down on the front: eyes red: lip black, more than half the length of the body: feelers black; first and second joints clothed with pale yellow hairs; second joint not half the length of the first; third joint spine-shaped, or tapering from the base to the tip, much longer than the first and the second joints: fore part of the chest very thickly clothed with long hoary hairs: abdomen covered with short gray hairs: legs black, beset with short black bristles; shanks dark ferruginous, black at the tips: wings colourless; wing-ribs ferruginous; veins black, ferruginous at the base; poisers tawny, with bright yellow knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Georgia. From Mr. Abbot's collection.

b. ——— ? From Mr. Children's collection.

### USIA, *Latreille*.

USIA ænea, *Latr. Gen. Crust.* iv. 315, pl. 15, f. 2. *Meig. Dipt.* ii. 226, 2, pl. 18, f. 21. *Macq. Hist. Nat. Dipt.* i. 383, 1, pl. 9, f. 11, 12. *Volucella florea*, *Meig. Klass. Zweif.* i. 194, 1.

a. France.

- USIA atrata*, *Meig. Dipt.* ii. 227, 3. *Macq. Hist. Nat. Dipt.* i. 384, 5.  
*Volucella atrata*, *Fabr. Ent. Syst. Supp.* 570. *Syst. Antl.* 114,  
 2. *Meig. Klass. Zweif.* i. 195, a.  
 a. Sicily.

*PLOAS*, *Fabricius*.

- PLOAS virescens*, *Fabr. Syst. Antl.* 136, 1. *Latr. Hist. Nat. Cr. et Ins.* xiv. 300. *Gen. Crust.* iv. 312, pl. 15, f. 7. *Cons. Gén.* 443. *Lam. Anim. sans Vert.* iii. 408, 1. *Meig. Dipt.* ii. 231, 1, pl. 19, f. 6. *Macq. Hist. Nat. Dipt.* i. 385, 1, pl. 9, f. 13. *Bombylius virescens*, *Fabr. Ent. Syst.* iv. 413, 18. *Gmel. Ed. Syst. Nat.* v. 2903, 12. *Meig. Klass. Zweif.* pl. 10, f. 17, 190, k. *B. maurus*, *Mikan, Monogr.* 56, 13, pl. 4, f. 13. *Conophorus maurus*, *Meig. Klass. Zweif.* i. 191, 1.  
 a. France.
- PLOAS grisea*, *Meig. Dipt.* ii. 232, 2. *Macq. Hist. Nat. Dipt.* i. 385, 2. *Bombylius griseus*, *Fabr. Ent. Syst.* iv. 413, 16. *Syst. Antl.* 135, 29. *Meig. Klass. Zweif.* i. 190, 1.  
 a. South of France. Presented by F. Walker, Esq.  
 b. Paris. Presented by F. Walker, Esq.

*CYLLENIA*, *Latreille*.

A. *Three submarginal areolets.*

B. *Two submarginal areolets.*

*CYLLENIA* *Ægiale*, n. s., mas. et fem. *Nigra, pilis canis vestita, capite albo, abdomine picco, antennis nigris, pedibus nigro-piceis, alis subcinereis fusco maculatis.*

Body black, thickly clothed with hoary hairs: head a little narrower than the chest, white behind and beneath, and thickly clothed with white hairs; clypeus and sides of the crown covered with black hairs: eyes dark red: lip black, hairy, as long as the chest; palpi long, black, hairy, nearly half the length of the lip: abdomen linear, piceous, a little narrower than the chest, and rather less than half its length, paler and with a ferruginous tinge beneath: feelers black, hairy: legs black, beset with short black bristles; hips and thighs piceous, and covered with white hairs: wings slightly gray; the fore borders brown for three-fourths of the length; six small brown spots on the disk clouding the cross-veins; wing-ribs and veins piceous, the latter black towards the tips; poi-

sers yellow, with ferruginous knobs. *Female*.—A little larger than the male; spots on the wings more indistinct. Length of the body 4—5 lines; of the wings 9—11 lines.

a. Georgia. From Mr. Abbot's collection.

*CYLLENIA aberrans*, n. s., mas. *Nigra, abdomine albo fasciato pilisque longissimis albis ciliato, antennis pedibusque nigris, alis basi nigro-fuscis apice limpidis.*

Eyes of the male remote from each other: wings with three areolets at the base and one along the fore border, and having also three close areolets in the disk of the wing, and nine that open to the tip and to the hind border; of the close areolets, the upper one is long and narrow, the two lower are shorter and broader, and one of them is half subdivided by an imperfect vein that extends into its disk; of the open areolets, the first and the second, reckoning from the base of the wing, are seated successively beneath one of the lower close areolets; the third is seated beneath the other lower close vein, which is subdivided, the fourth and the fifth are alongside it; the sixth is alongside of the upper close areolet, which it resembles in shape; the seventh is divided from the eighth, and the eighth from the ninth by two successive forks of the vein, which forms the lower side of all the three. Body black, clothed with black hairs: head very hairy, having a few short white hairs in front: eyes red: feelers and mouth black: abdomen with very long white hairs on each side, clothed with long black hairs at the tip, and having a band of short white hairs on each segment from the first to the fourth: legs black, clothed with black hairs: wings blackish brown from the base to beyond the middle; the rest colourless; the brown part is somewhat paler towards the hind border of the wing, and its outline thence to the fore border is slightly oblique and irregular; wing-ribs and veins piceous, the latter black towards the tips; posers piceous. Length of the body 3 lines; of the wings 7 lines.

a. ——— ?

#### TOXOPHORA, Wiedemann.

A. *Meig. Dipt. ii. pl. 19, f. 14. One marginal and three submarginal areolets.*

*TOXOPHORA maculata*, *Wied. Zool. Mag. i. 2, 8. Meig. Dipt. ii. 237, 1, pl. 19, f. 15. Macq. Hist. Nat. Dipt. i. 387, 1, pl. 9, f. 16. Gim. Bull. Soc. Imp. Nat. Mosc. 1847, 1, 223, 1. Asilus fasciculatus, Vill. Ent. 3, 10, 31.*

a. Valence, South of France. From Mr. Walker's collection.

*TOXOPHORA* Zilpa, n. s., mas. *Nigra, pilis aureis supra argenteisque subtus ornata, abdomine trivittato, antennis pedibusque nigris albo pilosis, alis cinereis, ad costam fulvo-fuscis.*

Body black : head clothed behind with golden hairs, adorned about the mouth with silvery down : eyes red, with a bronze tinge : lip black, about half the length of the feelers : feelers black, about half the length of the body, clothed with very short black hairs, and adorned beneath with white down : chest clothed with golden hairs : breast curved with silvery down : abdomen adorned with golden hairs which form three stripes joined together by bands towards the tip ; under-side dark gray ; hind borders of the segments clothed with silvery hairs : legs black ; thighs and shanks adorned with white down ; shanks armed with many black spines : wings dark gray, dark brown beneath the fore borders, which are dark tawny ; cross-veins slightly clouded ; wing-ribs and veins piceous, the latter black towards the tips ; poisers pale tawny, with yellowish white knobs. Length of the body 4 lines ; of the wings 5 lines.

a. China. Presented by G. T. Lay, Esq.

B. *One marginal and two submarginal areolets.*

*TOXOPHORA* fulva, G. R. Gray, *Griff. Anim. Kingd.* xv. *Ins.* 2, pl. 128, f. 5, 779. *T. leucopyza* ? *Wied. Auss. Zweif.* i. 361, 2. *Macq. Dipt. Exot.* ii. 1, 117, 1, pl. 13, f. 1.

a. Georgia. From Mr. Abbot's collection.

C. *Two marginal and two submarginal areolets.*

*TOXOPHORA* Amphitca, n. s., mas. *Nigra, pilis fulvis vestita, capite pectoreque cano pilosis, abdominis vittis tribus ventrequae argenteis, antennis pedibusque nigris, alis cinereis basi fuscis.*

Body black : head thickly clothed behind with hoary hairs, and adorned at the base of the feelers with a tuft of pale shining yellow hairs : eyes dark red : lip black, slender, a little longer than the feelers, and about half the length of the body : feelers black, clothed above with black hairs and beneath with white hairs : first joint very long ; second joint not one-fourth of the length of the first ; third joint like a spine, tapering from the base to the tip, nearly twice the length of the second : chest thickly clothed with tawny hairs, and beset in front with black bristles : breast covered with hoary down : abdomen adorned with three stripes of silvery down ; middle stripe narrow and entire ; side stripes broader and slightly interrupted on the fore borders of the segments ; under-side covered with silvery

down: legs black, clothed with short black hairs; hips and thighs adorned with silvery down; thighs beset with black bristles: wings gray, brown for one-third of the length from the base, and especially along the fore borders; wing-ribs piceous; veins black; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. John's Bluff, Florida. Presented by E. Doubleday, Esq.

D. *One marginal and two submarginal areolets, and an indication of the third, but part of the cross-vein is wanting. Veins at the tip of the wing very much contorted.*

TOXOPHORA ægeriiformis. *Lepidophora ægeriiformis*, Westwood, *Lond. and Edin. Phil. Mag.* vi. 447, 1. *Ploas ægeriiformis*, G. R. Gray, *Griff. Anim. Kingd.* xv. *Ins.* 2, 179, pl. 128, f. 6.

a. Georgia. From Mr. Abbot's collection.

## Fam. VII. ASILICI.

### DIOCTRIA, Fabricius.

DIOCTRIA Œlandica, *Fabr. Syst. Antl.* 149, 1. *Latr. Gen. Crust.* iv. 300. *Cons. Gén.* 443. *Lam. Anim. sans Verteb.* iii. 405, 1. *Fall. Dipt. Suec. Asil.* 6. *Meig. Klass. Zweif.* ii. 256. *Dipt.* ii. 241. *Macq. Dipt. Nord. Asil.* 14, 1. *Hist. Nat. Dipt.* i. 289, 1, pl. 7, f. 5. *Zeller, Isis*, 1840, 35, 1. *Loew, Prog.* 1840, 14, 1. *Isis*, 1840, 534, 1. *Linn. Ent.* ii. 410, 1. *Zett. Dipt. Scand.* i. 182, 1. *Asilus Œlandicus*, *Linn. Faun. Suec.* 1916. *Syst. Nat.* xii. 1008, 15. *Gmel. Ed. Syst. Nat.* v. 2900, 15. *Fabr. Sp. Ins.* ii. 465, 31. *Ent. Syst.* iv. 388, 53. *Geoff. Ins.* ii. 470, 8. *Herbst, Gem. Nat.* viii. 119, t. 346, f. 5. *Schränk. Faun. Boic.* iii. 2551. *Ins. Austr.* 995.

a. England.

b. France.

DIOCTRIA atricapilla, *Meig. Klass. Zweif.* i. 256, 4. *Dipt.* ii. 253, 25. *Fall. Dipt. Suec. Asil.* 7, 4. *Germ. et Ahr. Faun.* ii. 23. *Macq. Dipt. Nord. Asil.* 21, 15. *Loew, Linn. Ent.* ii. 413, 3. *D. atrata*, *Meig. Dipt.* ii. 254, 26. *D. nigripes*, *Meig. Klass.* i. 257, 5. *Dipt.* ii. 246, 10. *Macq. Hist. Nat. Dipt.* i. 291, 7. *D. Fallenii*, *Meig. Dipt.* ii. 246, 11. *D. fuscipennis*, *Fall. Dipt. Suec. Asil.* 7, 5. *Zeller, Isis*, 1840, 35, 2. *Loew, Prog.* 1840, 14, 3. *Isis*, 1840, 534, 3. *Zett. Dipt. Scand.* i. 184, 4. Var.

*rufimana*, *Loew, Prog.* 1840, 14, 4. *Isis*, 1840, 535, 4. Var. *geniculata*, *Loew, Prog.* 1840, 14, 5. *Isis*, 1840, 535, 5. *D. geniculata*, *Meig. Dipt.* ii. 243, 5? *Loew, Linn. Ent.* ii. 413, 3. *D. fuscipes*, *Macq. Hist. Nat. Dipt.* i. 292, 15. *Meig. Dipt.* vii. 70, 30.

a. England.

*DIOCTRIA geniculata*, *Meig. Dipt.* ii. 243, 5.

a. Ukraine. Presented by Dr. Dowler.

*DIOCTRIA cothurnata*, *Meig. Dipt.* ii. 244, 6. *Loew, Linn. Ent.* ii. 420, 7. *D. umbellatarum*, *Meig. Dipt.* ii. 244, 7.

a. ———? From Mr. Children's collection.

*DIOCTRIA Gagates*, *Meig. Dipt.* ii. 248, 14. *Loew, Linn. Ent.* ii. 417, 5. *D. semihyalina*, *Hoffmansegg, Meig. Dipt.* ii. 254, 27.

a. England.

*DIOCTRIA rufipes*, *Meig. Dipt.* ii. 242, 3. *Macq. Dipt. Nord. Asil.* 15, 2. *Hist. Nat. Dipt.* i. 290, 3. *Zett. Dipt. Scand.* i. 183, 2. *Loew, Linn. Ent.* ii. 425, 9. *Asilus rufipes*, *Deg. Ins.* vi. 97, 6, t. xiv. 2. *A. frontalis*, *Fabr. Ent. Syst.* iv. 388, 55. *Dioctria frontalis*, *Fabr. Syst. Antl.* 150, 5. *Latr. Gen. Crust.* iv. 300. *Meig. Klass.* i. 257, 7. *Lam. Anim. sans Verteb.* iii. 405, 2. *D. flavipes*, var.  $\beta$ , *Fall. Dipt. Suec. Asil.* 7, 2.

a. England.

b. France.

*DIOCTRIA flavipes*, *Meig. Klass.* i. 257, 2. *Fall. Dipt. Suec. Asil.* 7, 2. Var. a. et  $\gamma$ , *Macq. Dipt. Nord. Asil.* 15, 3. *Hist. Nat. Dipt.* i. 290, 4. *Zett. Dipt. Scand.* i. 183, 3. *Loew, Linn. Ent.* ii. 426, 10. *Asilus hyalipennis*, *Fabr. Ent. Syst.* iv. 388, 54. *Dioctria hyalipennis*, *Fabr. Syst. Antl.* 150, 4. *Lam. Anim. sans Verteb.* iii. 405, 3. *D. varipes*, *Meig. Dipt.* ii. 245, 8. *Macq. Dipt. Nord. Asil.* 16, 4. *Hist. Nat. Dipt.* i. 290, 5. *D. frontalis*, *Meig. Dipt.* ii. 247, 12. *Macq. Hist. Nat. Dipt.* i. 291, 8. *D. rufipes*, *Zeller, Isis*, 1840, 38, 4. *Loew, Isis*, 1840, 535 (excl. var.) *Prog.* 14, 6 (excl. var.)

a. Aix la Chapelle. From Mr. Walker's collection.

b. ———? From Mr. Children's collection.

*DIOCTRIA Baumhaueri*, *Meig. Dipt.* ii. 245, 9. *Macq. Dipt. Nord. Asil.* 16, 5. *Hist. Nat. Dipt.* i. 290, 6. *Loew, Linn. Ent.* ii. 429, 11.

a. South of France. From Mr. Walker's collection.

b. Aix la Chapelle. From Mr. Walker's collection.

*DIOCTRIA lateralis*, *Meig. Klass.* i. 258, 8, ex. p. *Dipt.* ii. 249, 16. *Macq. Dipt. Nord. Asil.* 18, 10. *Hist. Nat. Dipt.* i. 291, 11. *Loew, Prog.* 1840, 14, 7. *Isis*, 1840, 536, 7. *Linn. Ent.* ii. 435, 14. *Asilus hæmorrhoidalis*, *Meig. Klass.* i. 270. *Dioc-*  
*tria hæmorrhoidalis*, *Meig. Dipt.* ii. 250, 18. *Macq. Dipt.*  
*Nord. Asil.* 19, 13. *Hist. Nat. Dipt.* i. 292, 13. *Zeller, Isis*,  
1840, 41, 6.

a. France.

*DIOCTRIA cyanea*, *Fabr. Syst. Antl.* 150, 3. *Wied. Auss. Zweif.* i. 366, 5. *Asilus cyaneus*, *Fabr. Mant. Ins.* ii. 361, 35. *Ent.*  
*Syst.* iv. 387, 52.

a. South Africa. Presented by Dr. A. Smith.

*DIOCTRIA Albius*, n. s. *Nigra, thorace aureo bivittato, abdomine nigro-cupreo, antennis pedibusque nigris, alis cinereis.*

Body black, slender: head a little broader than the chest, covered with hoary down, which blends with the golden down on the front: tubercle of the eyelets and hind part of the head beset with long black hairs; clypeus armed with long black bristles: eyes bronze; fore part hardly flat, its facets blending as to size with those of the other part: lip black: feelers black; first and second joints slightly club-shaped, of equal length, clothed with black hairs; third joint spindle-shaped, not so long as the first and the second; fourth joint conical, very small: chest adorned with golden down, which forms two bright irregular stripes on each side, and covers in a less degree the whole back; the latter is also clothed with a few long tawny hairs: breast deep black, adorned with patches of white down: abdomen dark cupreous, shining, narrower than the chest, and rather more than twice its length: legs black, clothed with yellow down and long tawny hairs; hips adorned with white down; claws black; foot-cushions pale tawny: wings gray; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. New York. Presented by E. Doubleday, Esq.

#### DASYPOGON, *Fabricius*.

##### European Species.

A. *Fore shanks with tip-spines.* *Meig. Dipt.* ii. 258, pl. 10, f. 10, a. *Loew, Linn. Ent.* ii. 439.

Group I. SAROPOGON, *Loew, Linn. Ent.* ii. 439.



## Group II. DASYPOGON, Loew, Linn. Ent. ii. 448.

DASYPOGON teutonius, *Fabr. Syst. Antl.* 165, 10. *Latr. Gen. Crust.* iv. 300. *Meig. Dipt.* ii. 258, 1. *Macq. Dipt. Nord. Asil.* 22, 1. *Hist. Nat. Dipt.* i. 293, 2. *Zeller, Isis*, 1840, 43. *Loew, Linn. Ent.* ii. 448, 5. *Asilus teutonius*, *Linn. Syst. Nat. ed. xii.* 1008, 11. *Gmel. Ed. Syst. Nat.* v. 2898, 11. *Fabr. Sp. Ins.* ii. 465, 27. *Ent. Syst.* iv. 385, 43. *Schæff. Icon. t.* 8, f. 13. *Schrank. Faun. Boic.* iii. 2549. *Ins. Austr.* 994. *Panz. Faun. Germ.* i. 11. *Asilus &c.*, *Geoff. Ins.* ii. 469, 7.

- a. France.
- b. South of France. From Mr. Walker's collection.
- c. Polish Ukraine. Presented by Dr. Dowler.
- d. Albania. Presented by W. W. Saunders, Esq.
- e. Albania. From Mr. Walker's collection.

DASYPOGON punctatus, *Fabr. Syst. Antl.* 165, 5. *Latr. Gen. Crust.* iv. 299. *Cons. Gén.* 443. *Meig. Klass. Zweif.* i. 251, 2. *Dipt.* ii. 260, 4. *Macq. Dipt. Nord. Asil.* 23, 2. *Hist. Nat. Dipt.* i. 293, 1. *Zeller, Isis*, 1840, 43, ex. p. *Asilus punctatus*, *Fabr. Sp. Ins.* ii. 463, 15. *Ent. Syst.* iv. 381, 23. *Gmel. Ed. Syst. Nat.* v. 2897, 25. *Panz. Faun. Germ.* xlv. 24. *Lam. Anim. sans Verteb.* iii. 404, 4. *Asilus diadema*, *Fabr. Sp. Ins.* ii. 462, 11. *Ent. Syst.* iv. 379, 16. *Gmel. Ed. Syst. Nat.* v. 2897, 22. *Panz. Faun. Germ.* xlv. 23. *Dasygogon diadema*, *Fabr. Syst. Antl.* 164, 3. *Loew, Linn. Ent.* ii. 449, 6. *D. nervosus*, *Panz. Faun. Germ.* cv. 9. *Meig. Klass. Zweif.* i. 252, 3.

- a. England.
- b. France.
- c. South of France. From Mr. Walker's collection.
- d. Albania. Presented by W. W. Saunders, Esq.
- e. Malaga.

DASYPOGON sabaudus, *Meig. Dipt.* ii. 265, 10. *Macq. Hist. Nat. Dipt.* i. 294, 7. *Loew, Linn. Ent.* ii. 461, 13. *Asilus sabaudus*, *Fabr. Ent. Syst.* iv. 385, 40. *Meig. Klass. Zweif.* i. 268, k. *Dioctria sabauda*, *Fabr. Syst. Antl.* 150, 2.

- a. South of France. Presented by the Entomological Club.
- b. Albania. From Mr. Walker's collection.

B. Fore shanks without tip-spines. *Loew, Linn. Ent.* ii. 453.

a. Body lengthened. *Loew, Linn. Ent.* ii. 453.

• Group III. STENOPOGON, Loew, Linn. Ent. ii. 453.

DASYPOGON elongatus, *Meig. Dipt.* ii. 265, 11. *Macq. Hist. Nat.*

*Dipt.* i. 295, 11. *Loew, Linn. Ent.* ii. 456, 10. *Asilus elongatus, Meig. Klass.* i. 248, 9.

a. South of France. Presented by the Entomological Club.

Group IV. HABROPOGON, *Loew, Linn. Ent.* ii. 463.

Group V. XIPHOCERUS, *Loew, Linn. Ent.* ii. 470.

DASYPOGON glaucius, *Loew, Linn. Ent.* ii. 470, 16. *Asilus glaucius, Rossi, Faun. Etrusc.* ii. 327, 1565, t. ix. 4. *Fabr. Ent. Syst.* iv. 386, 46. *Meig. Klass.* i. 269. *Laphria glaucia, Fab. Syst. Antl.* 163, 30. *Meig. Dipt.* ii. 303, 31. *Dasygogon variegatus, Wied. Zool. Mag.* ii. 32. *Dipt. Exot.* i. 226, 22. *Auss. Zweif.* i. 396, 48.

a. Albania. From Mr. Walker's collection.

b. (Var. legs red). Albania. From Mr. Walker's collection.

Group VI. HOLOPOGON, *Loew, Linn. Ent.* ii. 473.

Group VII. ERIPOGON, *Loew, Linn. Ent.* ii. 487.

Group VIII. HETEROPOGON, *Loew, Linn. Ent.* ii. 488.

Group IX. ISOPOGON, *Loew, Linn. Ent.* ii. 492.

DASYPOGON brevirostris, *Meig. Dipt.* ii. 273, 24. *Curt. Brit. Ent.* 153. *Macq. Dipt. Nord. Asil.* 25, 6. *Hist. Nat. Dipt.* i. 298, 20. *Zett. Dipt. Scand.* i. 179, 4. *Loew, Linn. Ent.* ii. 493, 28. *Dioctria brevirostris, Meig. Klass. Zweif.* i. 255, 1, t. 13, f. 16, 17. *Dasygogon armillatus, Fall. Dipt. Succ. Asil.* 12, 3, ♀. *D. longitarsis, Fall. Dipt. Succ. Asil.* 13, 4, ♂.

a. England.

b. Clermont, Auvergne. Presented by the Entomological Club.

Group X. OLIGOPOGON, *Loew, Linn. Ent.* ii. 497.

Group XI. STICHOPOGON, *Loew, Linn. Ent.* ii. 499.

Group XII. LASIOPOGON, *Loew, Linn. Ent.* ii. 508.

Group XIII. CYRTOPOGON, *Loew, Linn. Ent.* ii. 516.

DASYPOGON ruficornis, *Meig. Dipt.* ii. 269, 17. *Macq. Hist. Nat. Dipt.* i. 296, 14. *Zeller, Isis*, 1840, 44. *Loew, Linn. Ent.* ii. 517, 38. *Asilus ruficornis, Fabr. Ent. Syst.* iv. 380, 20. *Syst. Antl.* 155, 9. *Meig. Klass.* i. 266.

a. France.

*DASYPOGON lateralis*, *Fall. Dipt. Suec. Asil.* 12, 2. *Meig. Dipt.* ii. 276, 27. *Macq. Hist. Nat. Dipt.* i. 298, 21. *Zett. Ins. Lapp.* 509, 2. *Var. a. Dipt. Scand.* i. 177, 2. *Loew, Linn. Ent.* ii. 523, 41.

a. France.

Group XIV. *ANAROLIUS*, *Loew, Linn. Ent.* ii. 524.

b. *Body broad.* *Loew.*

Group XV. *ACNEPHALUM*, *Loew, Linn. Ent.* ii. 525.

• Group XVI. *PYCNOPOGON*, *Loew, Linn. Ent.* ii. 526.

*DASYPOGON fasciculatus*, *Loew, Linn. Ent.* ii. 527, 44.

a. Albania. Presented by W. W. Saunders, Esq.

Group XVII. *CROBILOCERUS*, *Loew, Linn. Ent.* ii. 533.

### Exotic Species.

#### Group I.

*DASYPOGON Vica*, n. s., mas. et fem. *Ater, pilis nigris vittatus, fronte rufo-fusco, pedibus nigris, alis nigris cyaneo purpureo aut viridi micantibus.*

Body deep velvet-like black, clothed with short black hairs: head a little narrower than the chest, beset behind with black bristles, and thickly clothed beneath with long black hairs: front reddish brown, crossed by several furrows near the clypeus, which is armed with numerous long black bristles: eyes bronze-black, flat or very slightly concave in front, where the facets are larger and the boundary between the two parts is very distinct: lip black, about twice the length of the head, its tip clothed with short tawny hairs; palpi black and thickly clothed with long black hairs and bristles: neck rather long, with a cross furrow, reddish brown in front: chest beset with black bristles on each side and behind: abdomen flat, decreasing in breadth from the base to the tip, narrower than the chest, and about twice its breadth, shining towards the tip, which is armed with short black spines: legs black, clothed with black hairs and bristles, which are most frequent on the feet; claws black; foot-cushions tawny: wings black, adorned with bright blue or green or purple lustre, or with these colours intermingled; wing-ribs and

veins black ; poisers piceous. Length of the body 13—15 lines ; of the wings 24—26 lines.

a. Silhet. From the Rev. J. Stainforth's collection.

**DASYPOGON** Rhypæ, n. s., mas. et fem. *Ater, capite ferrugineo, abdomine rufo, antennis nigris, pedibus rufis, coxis genubusque nigris, tarsis piceis, alis cyaneo-nigris.*

Body deep velvet-like black : head much narrower than the chest, dark ferruginous and clothed with red hairs behind and beneath, beset with black bristles behind and on the crown ; front covered with ferruginous down ; clypeus beset with long black hairs and bristles : eyes dark bronze, fore part slightly concave, composed of rather large facets, and very distinct from the other part : lip black, about twice the length of the head : feelers piceous ; first and second joints slightly clothed with black hairs ; second joint slightly club-shaped, a little shorter than the first ; third joint nearly linear, rather narrow at the base, conical at the tip, very much longer than the first and the second joints : neck rather long : sides and hind part of the chest beset with black hairs and bristles : breast clothed with black and pale red hairs : abdomen red, flat, decreasing in breadth from the base to the tip, narrower than the chest and not twice its length, thickly covered above and beneath with red hairs : legs red, thickly clothed with red hairs ; hips, trochanters and knees black ; thighs and shanks with a very few red bristles ; feet piceous towards the tips, thickly beset with black bristles ; claws black ; foot-cushions tawny : wings black and adorned with bright blue lustre ; wing-ribs and veins black ; poisers piceous. Length of the body 14 lines ; of the wings 22 lines.

a. Silhet. From Mr. Stainforth's collection.

b. Silhet. From Mr. Sowerby's collection.

**DASYPOGON** Polygnotus, n. s., mas. et fem. *Niger, thorace cinereo vittis quatuor fuscis, abdomine rufo-fusco, antennis nigris articulo 3<sup>o</sup> piceo, pedibus nigris, alis subnigris.*

Body black, dull : head hardly as broad as the chest, covered with a hoary bloom, beset on the crown and along the rims of the eyes with black bristles, clothed behind and beneath with hoary hairs ; front covered with close shining whitish tawny down ; clypeus armed with some black and yellow hairs, and with six very stout and long black bristles : eyes dark bronze, convex ; fore part flat and composed of large facets, but the difference of the facets in the two parts is not so closely defined as in some other species, and they blend in size without any distinct boundary line : lip black, stout, its tip clothed with a cluster of short yellow hairs ; palpi

black, beset with black hairs, and at their tips with long black bristles: feelers black; first and second joints clothed with black bristles; second joint a little longer than the first; third joint piceous, very long, spindle-shaped, longer than the first and the second joints: neck covered with a gray bloom, clothed beneath with white hairs, and having a fringe of black bristles on its cross-furrow: chest covered with a gray bloom, on which are four indistinct broad brown stripes; sides beset with black bristles: breast hoary: abdomen of the male dark reddish brown, thinly clothed with yellow hairs, nearly cylindrical, narrowest in the middle, much narrower than the chest and rather more than twice its length, clothed with long white hairs on each side of the base; fore borders of the fourth and fifth segments shining and punctured; tip dark ferruginous, shining, beset with long yellow hairs and black bristles: abdomen of the female not narrower in the middle, shining, and with numerous little cross-furrows towards the tip, which is armed with a circlet of black spines: legs black, beset with yellow hairs and black spines; hips hoary and clothed with white hairs; claws black, with a short blunt tooth towards the base beneath, almost straight till near their tips, which are much curved; pulvilli dark tawny; fore legs unarmed: wings blackish; wing-ribs and veins black; poisers yellow. Length of the body 13—15 lines; of the wings 24—26 lines.

a. Silhet. From Mr. Stainforth's collection.

**DASYPOGON** Aphidas, fem. *Microstylum rufiventre?* Macq. *Dipt. Exot.* i. 2, 31, 10. *Niger, ferrugineo pubescens, abdomine rufo, antennis pedibusque nigris, tibiis tarsisque basi piceis, alis nigrofuscis.*

Body black: head a little narrower than the chest, covered with deep ferruginous down, clothed behind and thickly beneath with black hairs, and beset behind the eyes with a row of black bristles; sides of the crown furnished with a few black hairs and bristles; clypeus armed with four long pale yellow spines: eyes black; some of the facets coppery; fore part slightly convex, beset with larger facets than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with black hairs and bristles: feelers black; first joint linear, covered with a few black hairs; second joint club-shaped, as long as the first, beset with some black bristles; third joint piceous, spindle-shaped, much longer than the first and the second: chest and breast covered with very dark ferruginous bloom; the former beset across the neck on each side and behind with some black hairs and bristles: abdomen red, shining, crossed by numerous little furrows, piceous at the base,

narrower than the chest, and nearly twice its length, tapering from the base to the tip, where it is clothed with some short tawny hairs, and armed with a circlet of short black spines; a pale tawny stripe on each side of the third, fourth, and fifth segments; middle of the third segment crossed by some rows of little punctures; first and second segments short; third and following segments long, but successively decreasing in length: legs black, clothed with very short black hairs and armed with black spines; thighs and shanks crossed by numerous little furrows; shanks and feet piceous or very dark red at the base; claws black; foot-cushions pale brown; fore shanks unarmed: wings dark brown; wing-ribs piceous; veins black; poisers dark tawny. Length of the body 12 lines; of the wings 18 lines.

a. ——— ?

*DASYPOGON* Balbillus, n. s. *Niger, abdomine apice rufo, antennis pedibusque nigris, alis subfulvis.*

Body dull black: head hardly as broad as the chest, thinly clothed beneath with black hairs; clypeus armed with eight very long and some shorter pale yellow bristles: eyelets piceous: eyes black, convex, flat in the front, where the facets are large, but these as usual decrease in size as they diverge towards the outer part, which is composed of very small facets: lip black, rather long; its tip clothed with short yellow hairs; palpi also rather long, clothed with black hairs and beset at the tips with long piceous bristles: first and second joints of the feelers black, beset with black hairs; second joint shorter than the first; rims of the eyes beset with black bristles above and behind: chest and breast black, somewhat piceous on the borders of the sutures; sides of the chest beset with black bristles: abdomen cylindrical, much more than twice the length of the chest, decreasing in breadth from the base to the tip, thinly clothed with very short black hairs: first segment very short; second segment rather short, somewhat gibbous; third segment long; the following segments to the tip successively decreasing in length; sixth and following segments red; tip armed with black spines: legs black, clothed with tawny hairs; shanks and feet beset with black spines, these are most frequent on the feet, which are also more hairy than the shanks; claws black; foot-cushions tawny; fore legs not armed: wings pale tawny; wing-ribs and veins ferruginous; poisers tawny. Length of the body 15 lines; of the wings 25 lines.

a. Nepal. From the Hardwicke bequest.

## Group II.

**DASYPOGON** Serranus, n. s., mas. et fem. *Fuscus, capite fulvo, pectore cinereo, abdomine nigro, antennis pedibusque nigris, fem. pedibus piceis, alis fuscis basi et ad costam ferrugineis.*

Head hardly as broad as the chest, very thickly clothed behind and beneath with long bright tawny hairs; crown covered with close dull tawny down and beset with black hairs; front covered with thick, shining, pale yellow down, and crossed by two ridges near the clypeus, which is armed with numerous long pale yellow bristles, and has also some black and yellow hairs: eyes dark bronze colour; the fore part flat, and composed of large facets, which diminish in size as they approach the convex part, and blend with the small facets of the latter: lip rather long, stout, black; a cluster of dark tawny hairs on its tip; palpi black, thickly clothed with black hairs, and also at their tips with black bristles: feelers black; first and second joints of equal length, clothed with black hairs; third joint spindle-shaped, much longer than the first and the second; chest brown, furnished with some black hairs and beset with black bristles on each side and in front of the scutcheon, which also has some bristles: breast black, covered with a gray bloom, and thinly clothed with yellow hairs: abdomen black, clothed with short black hairs, decreasing in breadth from the base to the tip, convex, nearly cylindrical, narrower than the chest, and full twice its length, slightly tapering from the base to the tip; first and second segments short; third segment long; the following segments successively decreasing in length: legs of the male black, clothed with black hairs and bristles; claws black; foot-cushions piceous; fore legs unarmed: wings dark brown, ferruginous at the base and along the fore borders; wing-ribs and veins ferruginous; poisers piceous, tawny towards the base. *Fem.*—Tip of the abdomen armed with a circlet of black spines: legs piceous. Length of the body 10 lines; of the wings 16 lines.

a. Cape. Presented by the Entomological Club.

b. ———? From Mr. Children's collection.

**DASYPOGON** capensis, Wied. *Dipt. Exot.* i. 201, 31. *Auss. Zweif.* i. 369, 4. *Asilus capensis, Fabr. Syst. Antl.* 164, 4.

a. South Africa. Presented by Dr. A. Smith.

## Group III.

**DASYPOGON** lacteipennis, Wied. *Auss. Zweif.* i. 371, 8.

a. South Africa. Presented by Dr. A. Smith.

b. South Africa. Presented by Dr. Burchell.

c. Cape. Presented by R. W. Townsend, Esq.

**DASYPOGON aser**, Wied. *Auss. Zweif.* i. 374, 13. *Microstylum afrum*, Macq. *Dipt. Exot.* i. 2, 27, 2.

a. South Africa. Presented by Dr. A. Smith.

**DASYPOGON Blæsus**, n. s., fem. *Fulvus, thoracis disco nigro, lateribus pectoreque ferrugineis, abdomine nigro maculis utrinque ventrequè ferrugineis, antennis pedibusque ferrugineis femoribus supra tibiisque posticis dimidio apicali nigris, alis subfuscis, basi margineque postico limpidis.*

Head tawny, nearly as broad as the chest, thickly clothed behind with yellow hairs, and more thickly beneath with white hairs; crown thinly covered with tawny hairs; front and clypeus adorned with yellowish white down, the latter very thickly beset with yellow bristles; hypostoma ferruginous: eyes black, rather large; fore part flat, distinct from the other part, and with much larger facets: lip black, thickly clothed at the tip with pale tawny hairs; palpi bright tawny, thickly beset with tawny hairs and bristles: first and second joints of the feelers ferruginous, with piceous tips, of nearly equal length, clothed with tawny hairs and bristles: chest dull pale ferruginous, thinly clothed with short pale tawny hairs, and beset on each side and behind with pale yellow spines; disk mostly black; sides and breast ferruginous, with a slight hoary bloom, and clothed here and there with white hairs: abdomen ferruginous, tapering from the base to the tip, narrower than the chest and nearly thrice its length, black above, excepting the sides of the hind borders of the segments; first and second segments short; third and following segments long, dotted with bands of little black punctures, successively decreasing in length to the tip, which is armed with a circle of black spines: legs ferruginous, clothed with short pale yellow hairs and beset with pale yellow spines; feet also beset beneath with short black spines; thighs black above; hind shanks black from the middle to the tips; claws black, tawny towards the base; foot-cushions tawny: wings light brown, mostly colourless at the base and along the hind borders; wing-ribs and veins piceous; poisers tawny, with piceous knobs. Length of the body 12 lines; of the wings 16 lines.

a. South Africa. Presented by Dr. A. Smith.

**DASYPOGON Saverrio**, n. s. *Fulvus, thoracis vittis quatuor piceis, abdomine nigro aut piceo maculis utrinque ventrequè plerumque ferrugineis, antennis pedibusque ferrugineis, femoribus supra et metatibiis apice nigris, alis subfuscis basi limpidis.*

Head tawny, nearly as broad as the chest, thickly clothed behind with yellow hairs and more thickly beneath with white hairs;



crown thinly covered with tawny hairs: front and clypeus adorned with yellowish white down, the former clothed on each side with yellowish white hairs, the latter very thickly beset with yellow bristles; hypostoma ferruginous: eyes black, rather large; fore part flat, distinct from the other part and with much larger facets: lip black, rather long, thickly clothed at the tip with pale tawny hairs; palpi bright tawny, thickly beset with tawny hairs and bristles; first and second joints of the feelers ferruginous with piceous tips, of nearly equal length, clothed with tawny hairs and bristles: chest tawny, clothed with short tawny hairs and beset on each side and behind with tawny bristles, adorned with four piceous stripes, of which the inner pair are slender and the outer pair are broad; sides and breast paler, covered with a hoary bloom and clothed with white hairs: abdomen tapering from the base to the tip, narrower than the chest and more than twice its length, black above, ferruginous beneath and on the sides of the segments above from the middle to the hind borders, clothed with short tawny hairs, sometimes piceous and covered with a dark tawny or hoary bloom; segments dotted with cross rows of little black punctures; first and second segments short; third and following segments long, successively but slightly decreasing in length to the tip, which is armed with a circlet of short black spines: legs ferruginous, clothed with short pale yellow or white hairs, and armed with pale yellow spines; hips black, clothed with long white hairs; thighs black above; hind shanks black at the tips; tips of the feet blackish; claws black, ferruginous at the base; foot-cushions yellow or tawny: wings very light brown, colourless at the base, reaching when closed nearly to three-fourths of the length or to the last segment of the abdomen; wing-ribs and veins piceous, the latter black at the tips; poisers tawny, their knobs mostly piceous. Length of the body 12 lines; of the wings 16 lines.

Var.  $\beta$ . Abdomen piceous, covered with a dark tawny bloom; sides and under-side covered with a hoary bloom; hind borders of the segments of the under-side ferruginous, and this hue becomes more prevalent towards the tip and occupies the whole of the last segment.

a. South Africa. Presented by Dr. A. Smith.

*DASYPOGON VENOSUS*, *Wied. Dipt. Exot.* i. 215, 1. *Auss. Zweif.* i. 367, 1. *Microstylum venosum*, *Marq. Dipt. Exot.* i. 2, 27, 1.

a. South Africa. Presented by Dr. A. Smith.

## Group. IV.

*DASYPOGON subulatus*, Wied. *Auss. Zweif.* i. 375, 14.

a. Georgia?

*DASYPOGON* Ambryon, n. s., fem. *Ferrugineus, fulvo pubescens, abdominis apice piceo, antennis piceis apice nigris, pedibus ferrugineis, alis fuscis, venarum marginibus sublimpidis.*

Body ferruginous: head much narrower than the chest, covered with dull pale yellow down, thickly clothed with pale yellow hairs behind, and with whitish hairs beneath; crown covered with dark tawny down, and beset on each side with black bristles; clypeus armed with many long pale yellow spines: eyes black; fore part slightly convex, its facets very little larger than those elsewhere on the eyes: lip black, ferruginous, and clothed with short yellow hairs at the tip; palpi black, clothed with pale yellow hairs: feelers piceous; first and second joints beset with short black bristles; second joint much shorter than the first; third joint spindle-shaped, much longer than the first and the second; fourth joint black, like a spine, about one-fourth of the length of the third: neck with a ruff of black and yellow bristles: chest covered with dark tawny down, thinly clothed with short black hairs, beset on each side and behind with longer pale yellow hairs, and with some very long black and yellow bristles: breast paler tawny, covered with a slight hoary bloom, clothed here and there with white hairs: abdomen narrower than the chest, and nearly thrice its length, clothed with short yellow hairs, and on each side at the base with some longer hairs and with a few black and yellow bristles; tapering from the base to the tip, which is clothed with some black hairs and armed with a circlet of black spines: first and second segments short; third and following segments long, and of nearly equal length; eighth and ninth segments piceous, shining: legs very dark ferruginous, almost piceous, clothed with short pale yellow hairs, and beset with black spines; shanks and feet of fore and middle legs paler; claws black, ferruginous at the base: foot-cushions dark tawny; fore shanks unarmed: wings brown, paler along the borders of the veins, reaching, when closed, to two-thirds of the length of the abdomen; wing-ribs and veins piceous, the latter ferruginous along the fore half of the wing; poisers yellow. Length of the body 14 lines; of the wings 16 lines.

a. North Bengal. From Miss Campbell's collection.

**DASYPOGON** Scheno, n. s., mas. *Fulvus, thoracis vittis quatuor obscuris, pectore ferrugineo, abdomine nigro fasciis apice ventreeque ferrugineis, antennis ferrugineis apice piceis, pedibus ferrugineis, femoribus tibiisque posticis et tarsis piceis, alis albis venis fusco limbatis.*

Body very light tawny: head much narrower than the chest, thickly clothed with pale yellow hairs; crown of the head piceous; clypeus armed with a thick cluster of yellowish white bristles: eyes black; fore part very slightly convex, not very distinct from the other part, but composed of rather larger facets: lip black, shining, clothed at the base with long—at the tip with short—pale yellow hairs; palpi ferruginous, clothed with long yellowish white hairs; feelers ferruginous; first and second joints clothed with pale yellow hairs, which are mostly on the first joint; second joint cup-shaped, piceous at the tip, much shorter than the first; third joint nearly linear, but rather narrower at each end, piceous towards the base, almost as long as the first and the second joints; fourth and fifth joints almost like a bristle, hardly half the length of the third: chest clothed with short yellow hairs, thickly beset on each side and behind with long pale yellow bristles, adorned with four dark stripes, which are very close to each other: breast mostly ferruginous: abdomen black, crossed by numerous little furrows, tapering from the base to the tip, clothed with short pale yellow hairs, more than twice the length of the chest; hind borders of the segments, tip and underside ferruginous; segments from the third to the sixth of nearly equal length; seventh segment a little shorter than the sixth; eighth segment much shorter than the seventh; ninth segment ferruginous, as long as the eighth: legs ferruginous, clothed with yellowish white hairs, and rather thickly beset with yellowish white spines; feet, hind thighs and hind shanks mostly piceous; claws black, ferruginous at the base; foot-cushions tawny: wings white, pale brown along the borders of the veins; wing-ribs piceous; veins black, piceous at the base; poisers tawny. Length of the body 13 lines; of the wings 20 lines.

a. Tunis. From Mr. Fraser's collection.

**DASYPOGON** Antigones, n. s. *Flavo-fuscus, capite fulvo, thoracis lateribus pectoreque rufis, abdomine piceo, maculis utrinque ventreeque rufis, antennis ferrugineis, pedibus ferrugineis, alis albidis marginibus anticis fulvis apicibus subfuscis.*

Body yellowish brown: head tawny, narrower than the chest, covered with white down, clothed behind and beneath with white hairs, beset behind the eyes with tawny bristles; crown dark

tawny, with a few tawny hairs on each side; clypeus thickly beset with white bristles: eyes red; fore part flat, its facets a little larger than those of the other part: lip black; tongue ferruginous; palpi tawny (?), clothed with tawny hairs; first and second joints of the feelers ferruginous, clothed with tawny hairs; second joint shorter than the first: chest thinly clothed with very short white hairs, beset on each side and behind with dark tawny bristles; sides and breast pale red, covered with a tawny bloom, and partly clothed with white hairs: abdomen flat, piceous above, pale red beneath and on the sides of the hind borders of the dorsal segments, tapering from the base to the tip, a little narrower than the chest, and more than twice its length, clothed with short whitish hairs, and on each side of the base with longer pale yellow hairs and bristles; first and second segments short; third and following segments long, but successively decreasing in length: legs ferruginous, clothed with short white hairs and beset with white spines; claws black, ferruginous towards the base; foot-cushions pale tawny; fore-shanks unarmed: wings whitish, dull tawny along the fore borders, pale brown at the tips; wing-ribs ferruginous; veins black, piceous towards the base, ferruginous along the fore borders; poisers tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 18 lines.

*Variation in the wing-veins.*—In one wing the little cross-vein is double.

a. South Africa. Presented by Dr. A. Smith.

*DASYPOGON* Damias, n. s., mas. et fem. *Fulvus, capite alido, thoracis vittis tribus pallide fuscis, abdomine rufo, antennis ferrugineis apice piceis, pedibus rufis, alis cinereis, venis fulvo limbatis.*

Head whitish, clothed with white hairs behind and beneath, where the hairs are longest and most thick, beset behind the eyes with a row of black bristles; crown and each side of the front covered with a few black hairs; clypeus thickly beset with pale yellow bristles: lip and palpi black: the latter and the tips of the former clothed with pale yellow hairs; first and second joints of the feelers ferruginous, beset with short black bristles; second joint much shorter than the first: third joint linear, piceous, ferruginous and rather narrower at the base and at the tip; fourth and fifth joints like a spine, nearly as long as the second: chest and breast dull tawny: chest with three pale brown broad stripes, thinly clothed with short black hairs, beset on each side and behind with long black bristles; scutcheon and breast with a hoary tinge: abdomen red, flat, clothed with short tawny hairs, tapering from the base to the tip, narrower than the chest, and scarcely twice its

length; first and second segments short; third and following segments long, but successively decreasing in length: legs red, thinly clothed with short black hairs; hips clothed with long tawny hairs; spines on the shanks and on the feet longer and more numerous than those on the thighs; claws black, ferruginous at the base; foot-cushions dull tawny: wings dark gray, pale tawny along the borders of the veins; wing-ribs and veins piceous; poisers tawny. Length of the body 12 lines; of the wings 18 lines.

a. North Bengal. From Miss Campbell's collection.

DASYPOGON Aphrises, n. s. *Niger, humeris rufis, pectore rufo vario, abdomine pedibusque rufis, alis subfuscis margine antico obscuriore.*

Body black: head much narrower than the chest, thinly clothed on the crown, and more thickly behind, with tawny hairs, and most thickly beneath with pale yellow hairs, beset behind the eyes with tawny bristles; clypeus large, prominent, very thickly beset with long pale yellow bristles: eyes black; fore part slightly convex, its facets very little larger than those of the other part: lip black, shining, clothed at the tip with tawny hairs; palpi black, clothed with pale yellow hairs: chest thinly clothed with tawny hairs, and beset on each side with long tawny bristles; shoulders red, and beset with red bristles: breast with a red spot here and there, and clothed at intervals with tawny hairs: abdomen red clothed with tawny hairs, a little narrower than the chest, tapering from the base to the tip, which is mutilated: legs red, clothed with tawny hairs, and beset with black bristles; thighs black, mostly red at the base and on the under-side; fore thighs unarmed; claws black, ferruginous at the base; foot-cushions dull tawny: wings light brown, darker brown along the fore border, especially from one-third to one-half of the length; wing-ribs and veins piceous, the latter partly black; poisers tawny. Length of the body 9 lines; of the wings 16 lines.

a. Nepaul. From the Hardwicke bequest.

DASYPOGON Echelus, n. s., fem. *Niger, thoracis lateribus rufescentibus, abdomine rufo, basi apiceque nigro, antennis rufis, pedibus ferrugineis, alis fuscis.*

Body black: head much narrower than the chest, clothed with yellowish white hairs behind, and more thickly and with longer hairs beneath, beset behind the eyes with a row of black bristles; crown covered with a few black hairs; clypeus large, thickly beset

with pale yellow bristles: eyes black; fore part slightly convex, and with larger facets than elsewhere; lip and palpi black, the latter and the tip of the former clothed with pale yellow hairs: feelers red; first joint piceous; second joint shorter than the first; third joint tapering from the base to the tip, thrice the length of the second; fourth and fifth joints black, like a bristle: chest slightly clothed with tawny hairs, tinged with red and beset with black bristles on each side and behind: abdomen red, thinly clothed with short yellow hairs, narrower than the chest, and rather more than twice its length, tapering from the base to the tip, where it is armed with a circlet of black spines, black at the base; sides and hind borders of the segments black towards the tip; first and second segments short; third and following segments long, but successively decreasing in length: legs very dark ferruginous, clothed with short black hairs and beset with black spines, tips of thighs black; claws black: foot-cushions dark tawny: wings brown; disks of the areolets somewhat paler; wing-ribs and veins tawny; the latter piceous at the tips; poisers ferruginous. Length of the body 12 lines; of the wings 16 lines.

a. Nepalul. From the Hardwicke bequest.

*DASYPOGON* Imbrex, n. s. *Cinereo-fuscus, pectore cinereo, abdomine rufo, antennis fulvis, pedibus rufis, femoribus nigris, alis cinereis.*

Head much narrower than the chest, covered with yellow down, clothed thinly above, but thickly behind and beneath with tawny hairs; clypeus thickly beset with pale yellow bristles: eyes dark bronze; fore part slightly convex, its facets hardly larger than elsewhere on the eyes: lip and palpi black, the latter and the tips of the former beset with tawny hairs: first and second joints of the feelers tawny, clothed with short tawny hairs; second joint much shorter than the first: chest grayish brown, thinly clothed with tawny hairs, beset on each side and behind with long tawny bristles: breast gray: abdomen dull red, clothed with very short yellow hairs, tapering from the base to the tip, narrower than the chest, and about twice its length; first and second joints very short; third and following joints long, but successively decreasing in length to the tip, which is piceous and shining: legs red, clothed with short tawny hairs, and beset with tawny bristles; hips gray; thighs mostly black; claws black; foot-cushions dark tawny: wings gray; wing-ribs and veins ferruginous; poisers tawny. Length of the body 10 lines; of the wings 16 lines.

a. Nepalul. From the Hardwicke bequest.

## Group V.

**DASYPOGON** Digentia, n. s., mas. et fem. *Niger, thorace vittis duabus aureis, pectore cinereo, abdominis apice ferrugineo, antennis pedibusque nigris, femoribus apice tibiisque rufis, alis antice subfulvis postice subcinereis.*

*Male*.—Body black: head not so broad as the chest, clothed with a few black hairs on the crown, with thick long pale yellow hairs behind and beneath, and with long bright tawny hairs on the front and on the clypeus: eyes purplish black, flat, and with larger facets in front, but the difference in size of the facets is not so great as in some other species, nor is the boundary-line so clearly defined; lip black, short, and very stout, its tip clothed with short pale yellow hairs; palpi black, very thickly clothed with long black hairs and bristles: feelers black; first and second joints clothed with black hairs; second joint much shorter than the first; third joint tapering from the base to the tip, longer than the first and the second; fourth joint very small: chest clothed with short black hairs, and adorned with a stripe of golden down on each side, which is beset with long pale yellow hairs and tawny bristles: breast gray, and thickly clothed with long pale yellow hairs: abdomen compressed, except at the base and at the tip, shining, crossed by numerous little furrows, clothed with short yellow hairs, and beneath also with longer and paler hairs, much narrower than the chest and more than twice its length; first and second segments short, thinly clothed with long pale hairs; third segment long; the following segments successively decreasing in length; tip ferruginous: legs black, clothed with black hairs; hips and thighs clothed also with long pale hairs; shanks and feet beset with black bristles, and the former also with some longer tawny bristles; tips of thighs and shanks, excepting their tips, red; fore legs unarmed; fore shanks clothed on their inner side with golden down: wings with a slight tawny tinge on the fore border, and with a slight gray tinge on the hind border; the disk almost colourless; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers of the male tawny, of the female piceous. *Fem*.—Abdomen rather shorter than that of the male, of equal breadth along the whole length, armed with a circlet of black spines at the tip: hind thighs more slender than those of the male. Length of the body 10—11 lines; of the wings 16—18 lines.

a. New Holland. Presented by the Haslar Hospital.

b. West Australia. From Mr. Clifton's collection.

**DASYPOGON** Agave, n. s., fem. *Niger, aureo-pilosus, thorace abdomineque aureo, bivittatis, antennis pedibusque nigris, tibiis rufis, alis limpidis, basi ad costam venarumque marginibus apice subfulvis.*

Allied to *D. Digentia*. Body black: head not so broad as the chest, clothed with a few black bristles on the crown, with thick long pale yellow hairs behind and beneath, and on the front with bright yellow down and hairs which also adorn the clypeus: eyes purplish black, flat, and with large facets in front, like those of *D. Digentia*: mouth also like that of the preceding species: feelers black; first and second joints thinly clothed with short black hairs of equal length; third joint slightly tapering from the base to the tip, a little longer than the first and the second; fourth joint very small: chest and breast like those of *D. Digentia*: the golden down of the sides of the chest is spread, though more slightly over the back, and also covers some parts of the sides of the breast: abdomen more thickly clothed than that of *D. Digentia* with golden hairs, and having a stripe of golden bloom along each side: legs black, clothed with yellow hairs; thighs armed with a few tawny spines, more slender than those of the preceding species; shanks red, beset, as are also the feet, with tawny and red spines, the latter have black tips; claws piceous, ferruginous at the base, where there is a short blunt tooth on the under-side: wings colourless, slightly tawny at the base, on the fore borders, and along the sides of the veins towards the tips; wing-ribs and veins ferruginous, the latter piceous towards the tips; posiers yellow. Length of the body 11 lines; of the wings 16 lines.

- a. Swan River. Presented by Sir J. Richardson.
- b. New Holland. Presented by the Earl of Derby.
- c. New Holland. Presented by the Haslar Hospital.

**DASYPOGON** Thalpius, n. s. *Niger, thorace auro pubescente et vittato, pectore cano, abdomine pilis fulvis vestito apice ferrugineo, antennis nigris, pedibus rufis, femoribus basi, tarsisque nigris, alis limpidis.*

Body black: head a little narrower than the chest, thinly covered with black hairs, thickly clothed behind and beneath with white hairs, and adorned with a thick tuft of golden hairs on the front and on the clypeus: eyes black; fore part flat, but its facets are hardly larger than those of the other part: eyelets dark red: lip black, clothed at the tip with short yellow hairs: feelers black; first and second joints beset with short stout black hairs; second joint club-shaped, a little shorter than the first: chest clothed with golden down, which forms a stripe on each side, and a middle



stripe is perhaps effaced in the specimen described; sides grayish tawny, clothed with long yellow hairs, and beset with some ferruginous bristles: breast hoary, clothed with long pale yellow hairs: abdomen much narrower than the chest, and rather more than twice its length, nearly cylindrical, slightly decreasing in breadth from the base till very near the tip, where it again widens, clothed with short bright tawny hairs, and with longer and paler hairs on each side towards the base; first segment very short; second segment short, with a cross ridge; third, fourth, and fifth segments long; sixth segment short; seventh and following segments still shorter; tip dark ferruginous: legs red, clothed with yellow hairs and beset with slightly curved spines; hips, thighs towards the base, hind thighs wholly, tips of shanks and feet black; spines red on the thighs, but black on the shanks and on the feet, where they are more numerous; fore and middle shanks furnished with some longer tawny spines; tips of fore shanks not armed: wings colourless; wing-ribs ferruginous; veins black, piceous towards the base; poisers pale tawny. Length of the body 8—10 lines; of the wings 12—14 lines.

Var.  $\beta$ . Tips of fore thighs red.

a. West Australia. From Mr. Clifton's collection.

b. ———? From Mr. Children's collection.

*DASYPOGON LANATUS*, n. s., fem. *Niger, thorace fulvo trivittato, pectore cinereo, abdominis apice compresso et subrufo, lateribus fulvo vittatis, ventre cinereo-fulvo, antennis nigris, pedibus rufis, tarsis femoribus basi tibiisque apice nigris, alis subcinereis basi subfulvis.*

Body black: head a little narrower than the chest, clothed above and behind with black hairs, and beneath with yellow hairs; clypeus and front adorned with golden down, and with a tuft of golden hairs: eyes dark bronze; fore part slightly convex, its facets hardly larger than elsewhere on the eye: lip black, shining, clothed at the tip with short tawny hairs; tongue ferruginous; palpi black, and clothed with black bristles: first and second joints of the feelers black, and clothed with black hairs; second joint slightly club-shaped, more than half the length of the first: chest clothed with black hairs, and covered on each side with pale tawny down which forms three stripes on the back; sides thinly clothed with yellow hairs, and beset with tawny bristles: breast gray, clothed with long pale yellow hairs: abdomen slender, nearly linear, much narrower than the chest, and less than twice its length, clothed with short yellow hairs, compressed towards the tip, which is partly red, and crossed by numerous little furrows; there is a broad pale tawny

stripe along each side, clothed with long pale yellow hairs, as is also the under-side, which is grayish tawny; second segment convex as usual; third and following segments long, but successively decreasing in length; ninth segment short, and armed with a circlet of black spines: legs bright red, clothed with short pale yellow hairs; hips, thighs at the base, tips of the shanks and feet black; hips and thighs clothed with long pale yellow hairs; tips of the latter armed with a very few short spines; shanks armed with more and longer black and tawny spines; feet more thickly beset with short stout spines; claws black; foot-cushions tawny: wings pale gray, or almost colourless, with a very slight tawny tinge towards the base; wing-ribs ferruginous; veins piceous, ferruginous at the base, black at the tips; poisers tawny. Length of the body 8 lines; of the wings 12 lines.

a. Van Dieman's Land. Presented by the Rev. Augustus Beaufort.

b. Van Dieman's Land. Presented by R. Butler, Esq.

*DASYPOGON Agathyllus, n. s. Niger, pilis flavis fulvisque vestitus, humeris abdominisque apice ferrugineis, antennis pedibusque ferrugineis, femoribus tibiisque posticis piceis, alis fulvis albo unifasciatis.*

Body black: head much narrower than the chest, thickly clothed behind and beneath with yellow hairs, and there are some also on the sides of the front; clypeus thickly beset with long pale yellow bristles: eyes black; fore part slightly convex, its facets a little larger than those of the other part: lip black, clothed at the tip with short tawny hairs: first and second joints of the feelers ferruginous, of nearly equal length, clothed with yellow hairs: neck with a ruff of yellow bristles: chest clothed with yellow hairs, and beset on each side and behind with long yellow bristles; shoulders ferruginous: breast partly clothed with yellow hairs: abdomen narrower than the chest, and rather more than twice its length, clothed with tawny hairs, tapering from the base to the tip, which is ferruginous; first and second segments short; third and following segments long, but successively decreasing in length: legs ferruginous, clothed with yellow hairs, and beset with pale yellow bristles; hind thighs piceous, ferruginous on the under-side from the base to the middle; hind shanks piceous, ferruginous at the base; claws black, ferruginous at the base; foot-cushions ferruginous: wings tawny, with a colourless streak below the fore border from the base to the middle; wing-ribs, veins, and poisers ferruginous. Length of the body 12 lines; of the wings 18 lines.

a. ———? Presented by Captain Lord Byron.

**DASYPOGON** *Pedanus*, n. s., fem. *Fuscus, capite pectore thoracis vittis duabus, scutello et metathorace albis, abdominis fasciis ventreeque canis, antennis pedibusque nigris, alis limpidis apice subfuscis.*

Head white, narrower than the chest, clothed with white hairs, which are very thick beneath; crown piceous, beset with tawny bristles; clypeus thickly armed with long white bristles: eyes dark bronze; fore part flat, with larger facets, distinguishable from the other part, though the difference of the size of the facets is not so great as in some other species; lip black, short, its tip clothed with tawny hairs: feelers black; first and second joints clothed with white hairs; second joint not half the length of the first; third joint spindle-shaped, tawny at the base, as long as the first and the second joints: chest brown, with a white stripe on each side, beset with some long pale yellow hairs and bristles on the sides and about the hind border; shoulders ferruginous; breast white and thinly clothed with white hairs; scutcheon and hind chest also white, and the latter with a tuft of long white hairs on each side: abdomen brown, decreasing in breadth from the base to the tip, narrower than the chest and more than twice its length, thinly clothed with short white hairs, thickly crossed with little furrows, shining towards the tip, which is armed with short black spines; hind borders of the segments and under-side hoary; a tuft of long white hairs on each side of the base: legs black, thickly covered with short white hairs; hips hoary; thighs, shanks and feet armed with yellow spines, which are most frequent on the latter; claws black, tawny at the base; foot-cushions tawny; shanks ferruginous, with black tips: wings colourless, slightly tinged with pale brown at the tips, the disks of whose arcolets are nearly colourless; wing-ribs tawny; veins piceous, black towards the tips; poisers tawny. Length of the body 8 lines; of the wings 10 lines.

a. Swan River. Presented by Sir J. Richardson.

**DASYPOGON** *Nicoteles*, n. s. *Cinereus, capite cano, thorace piceo univittato, abdominis apice nigro, antennis tarsisque nigris, femoribus purpureo-cupreis, tibiis ferrugineis apice nigris, alis limpidis apice subcinereis.*

Body gray: head hoary, a little narrower than the chest, thickly clothed above, behind and beneath with hoary hairs; clypeus thickly beset with long black bristles: eyes piceous; fore part slightly convex, dark bronze, its facets a little larger than those elsewhere on the eye: lip black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black; first and second joints beset with black hairs, nearly equal in length; third joint

slightly tapering from the base to the tip, as long as the first and the second; fourth joint not one-third of the length of the third; fifth joint extremely short: neck with a ruff of hoary hairs: chest thinly clothed with long slender black hairs, and having a broad piceous stripe in the middle: breast with a few scattered hoary hairs: abdomen nearly linear and cylindrical, narrower than the chest and about twice its length, black at the tip, thinly clothed with short hoary hairs, and towards the base with longer hairs, and with a few bristles of the same colour; first and second segments short; third and following segments long, but successively decreasing in length: legs clothed with hoary hairs and beset with tawny spines; hips gray; thighs purplish bronze; shanks ferruginous, with black tips; feet black; claws black; foot-cushions tawny; fore shanks unarmed: wings colourless, light gray at the tips; wing-ribs ferruginous; veins piceous, black towards the tips; poisers tawny, with piceous knobs. Length of the body  $5\frac{1}{2}$  lines; of the wings 8 lines.

a. Swan River. Presented by Sir J. Richardson.

*DASYPOGON* AORIS, n. s., fem. *Fuscus, thoracis vittis tribus lateribusque fulvis, pectore cano, abdominis apice nigro, antennis nigris, pedibus cinereis, alis subfuscis.*

Body dark brown: head a little narrower than the chest, covered with whitish down and clothed with white hairs behind and beneath: crown with a stripe of pale yellow down and some whitish hairs on each side; front and clypeus covered with yellow down; clypeus armed with yellow hairs and bristles, the latter in front: eyes black; fore part slightly convex, its facets not much larger than those of the other part: lip black, clothed at the tip with short yellow hairs; palpi black, beset with long pale yellow hairs: feelers black; first and second joints clothed with pale yellow hairs; second joint much shorter than the first; third joint spindle-shaped, longer than the first and the second joints; fourth and fifth joints forming a spine, which is about one-sixth of the length of the third joint: chest clothed with a few very short black hairs, beset on each side and behind with some white bristles, adorned with three tawny stripes; middle stripe indistinct; sides tawny: breast hoary, partly clothed with white hairs: abdomen narrower than the chest and nearly twice its length, slightly tapering from the base to the tip, clothed with yellow hairs, which are longer and more numerous towards the base, black, shining, and crossed by numerous little furrows towards the tip; first and second segments very short; third and following segments long, successively decreasing in length; tip armed with a circlet of short black spines: legs gray, thickly clothed with whitish hairs, armed with white spines, which are numerous

on the feet, but scarce on the thighs; claws black, tawny at the base; foot-cushions tawny: wings light brown, paler along the hind borders; wing-ribs ferruginous; veins piceous, black towards the tips; poisers tawny. Length of the body  $7\frac{1}{2}$  lines; of the wings 12 lines.

a. Adelaide. Presented by the Entomological Club.

*DASYPOGON Californiæ*, n. s., mas. *Niger, pilis fulvis dense vestitus, pectore cinereo, abdomine ferrugineo, antennis nigris, pedibus ferrugineis, femoribus genibusque nigris, tibiis apice piceis, alis cinereis.*

Body black: head and chest covered with a gray bloom: head a little narrower than the chest, thickly clothed behind and beneath with bright tawny hairs; crown covered with black hairs; front and clypeus thickly clothed with pale tawny bristles: eyes black; fore part slightly convex; its facets hardly larger than those elsewhere in the eye: lip and palpi black; the latter and the tip of the former clothed with tawny hairs: feelers black; first and second joints thickly clothed with black hairs; second joint cup-shaped, much shorter than the first; third joint tapering from the base to the tip, longer than the first and the second; fourth and fifth like a spine, about half the length of the third: chest covered with tawny down, and thickly clothed with tawny and black hairs: breast gray, covered with tawny down, and thinly clothed with yellow hairs: abdomen bright ferruginous, thickly clothed with bright tawny hairs, full twice the length of the chest, tapering from the base to the tip, with a piceous stripe on each side; segments from the third to the sixth long, and of nearly equal length; seventh segment shorter; eighth and ninth segments much shorter: legs bright ferruginous, thickly clothed with ferruginous hairs, and beset with tawny bristles; hips, thighs, excepting their tips, and knees black; tips of shanks piceous; claws black, ferruginous towards the base; foot-cushions dark ferruginous; middle shanks ferruginous, with a black streak on the outer side; fore shanks not armed: wings dark gray; wing-ribs dark ferruginous; veins black, piceous towards the base: poisers tawny. Length of the body 10 lines; of the wings 14 lines.

a. California. Presented by E. Doubleday, Esq.

### Group VII.

*DASYPOGON humeralis*, var.? *Wied. Dipt. Exot. i. 225, 19. Auss. Zweif. i. 396, 47.*

a. South Africa. Presented by the Earl of Derby.

**DASYPOGON Spurius**, n. s., mas. et fem. **Mas.**—*Canus, thorace cinereo-fusco vittis tribus pallidioribus, abdominis segmentis fulvo vittatis, antennis nigris articulo 3<sup>o</sup> piceo, pedibus nigris, femoribus subtus tibiisque basi ferrugineis, alis limpidis.* **Fem.**—*Cinereo-fulvus, abdomine ferrugineo, dorso plerumque nigro, antennis pedibusque nigris, femoribus fulvis nigro vittatis, tibiis basi fulvis.*

**Male.**—Body hoary: head as broad as the chest, clothed on the crown behind and beneath with long pale yellow hairs; front clothed with close shining pale yellow down; clypeus beset with many pale yellow bristles: eyes bronze colour, distinctly divided into two compartments by the size of the facets: lip black; tongue ferruginous, clothed beneath with thick down; maxillæ tawny; palpi black, clothed with black hairs and bristles: feelers black; first and second joints of equal length; second joint beset with black bristles; third joint piceous, spindle-shaped, ferruginous towards the tip, as long as the first and second joints: chest grayish brown, with three indistinct paler stripes; sides somewhat ferruginous, and beset with pale yellow bristles: breast gray or hoary: abdomen gray, thinly clothed with short yellow hairs, slightly decreasing in breadth from the base to the tip, narrower than the chest and much more than twice its length; a white stripe along each side; hind borders of the segments tawny; tip ferruginous: legs black, clothed with short pale yellow hairs; thighs beneath and shanks at the base ferruginous; thighs, shanks and feet armed with pale yellow spines; feet also beset with black bristles; claws black; foot-cushions dark tawny, ferruginous at the base; fore legs unarmed: wings quite colourless; wing-ribs and veins piceous, the latter black towards the tips; poisers ferruginous.

**a.** ———?

**Female.**—Head pale tawny, as broad as the chest, covered with shining white down and clothed with white hairs; crown dull dark tawny; clypeus armed with long white bristles: eyes with green and purplish tints: lip black, rather long, its tip beset with short tawny hairs; palpi black, clothed with black hairs, and towards their tips with black bristles: feelers black; first and second joints beset with black bristles; second joint shorter than the first: chest tawny, clothed with short black hairs and beset with white bristles along each side, covered with a gray bloom, which is most apparent on the scutcheon and on the hind chest; the disk is brown: breast tawny, covered with a shining hoary bloom: abdomen pale ferruginous, shining, decreasing in breadth from the base to the tip, a little nar-

rower than the chest and more than twice its length, thickly clothed with short yellow hairs, and having some longer white hairs on each side of the base, crossed by numerous little furrows; segments of the back from the first to the fifth dull black, with the exception of the hind borders of the three last; tip armed with short black spines: legs black, thinly clothed with short yellow hairs; hips covered with a white bloom and with some white hairs; thighs, shanks and feet beset with yellow spines, the latter also clothed with black hairs and bristles; thighs tawny, with a black stripe passing along the whole length; shanks tawny towards the base; claws black; foot-cushions tawny; fore legs unarmed: wings colourless: wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body 10 lines; of the wings 16 lines.

a. South Africa. Presented by the Earl of Derby.

**DASYPOGON** *Anaxilas*, n. s. *Fulvus, thorace piceo quadrivittato, lateribus albo vittatis, antennis pedibusque ferrugineis, alis limpidis, basi venarumque marginibus subfulvis.*

Head dull tawny, clothed behind with black hairs; crown piceous; front covered with shining pale yellow down; clypeus armed with long pale yellow bristles: lip black, clothed towards the tip with short yellow hairs; palpi black, clothed with black hairs, and towards the tips with black bristles: eyes dark bronze colour, divided into two parts by the difference in size of the facets, but the boundary is not very distinctly marked: feelers ferruginous; first and second joints equal in length; third joint piceous, spindle-shaped, as long as the first and the second: neck hoary: chest dark tawny, with four piceous stripes, the outer pair very short; a white stripe on each side, which is beset with some tawny bristles: breast hoary: abdomen wanting: legs ferruginous, clothed with short black hairs and beset with tawny spines, of which there are most on the feet and fewest on the thighs; claws black, tawny at the base; foot-cushions tawny; fore legs armed with a short curved black tooth at the tip of the shank: wings slightly tawny at the base and along the borders of the veins; the disks mostly colourless; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, piceous at the base. Length of the body 12 lines; of the wings 18 lines.

a. South Africa. Presented by Dr. A. Smith.

## Group VIII.

**DASYPOGON** *Salinator*, n. s., mas. *Fulvus, thorace cinereo subfulvo trivittato, abdominis segmentis nigro-fasciatis, antennis fulvis apice nigris, pedibus fulvis, alis cinereis, venarum marginibus limpidis.*

Head tawny, covered with white shining down, a little broader than the chest; hind part encircled with white bristles, which appear tawny in some aspects, and the same variation occurs in the long white bristles which arm the clypeus, and are twenty or more in number; two black or white spines on the tubercle of the eyelets; hypostoma clothed with black hairs: mouth short, black, clothed towards the base with white hairs; tip of the lip with a tuft of short pale yellow hairs: eyes coppery; fore part flat and of larger facets, which decrease in size successively as they diverge towards the convex and larger part of the small facets, and the line between the two parts is distinctly marked: feelers tawny; first and second joints beset with short black hairs; second joint longer than the first; third joint very long spindle-shaped, much longer than the first and the second, but not twice their length; fourth joint black, very short: chest gray, with three narrow indistinct stripes of a somewhat tawny colour, and beset with some rows of short black bristles; breast and sides of the chest clothed with silvery white down, the former thinly covered with white hairs, the latter furnished with some black hairs and long black bristles: scutcheon also adorned with silvery down: abdomen much narrower than the chest and rather less than twice its length, dull tawny, clothed with short black hairs, decreasing in breadth from the base to the tip where it is shining; each segment has a black band, which from the base to the tip occupies successively more and more of its surface; second segment short, with a row of white bristles on its hind border; third segment long; the following segments successively decreasing in length; tip ferruginous, beset with short black spines: legs tawny, clothed with short white hairs; hips and trochanters black; thighs with two or three white spines, more of these on the shanks and most on the feet, which have also some black spines; claws black, tawny at the base; foot-cushions pale tawny; fore legs armed with a long curved black tooth on the tip of the shank, and with a short blunt tawny tooth at the base of the foot: wings gray, colourless along the borders of the veins, the usual disposition of the tinge being here reversed; wing-ribs and veins piceous, the latter black towards the tips; poisers pale tawny. Length of the body 11—12 lines; of the wings 18—20 lines.

a. Port Essington. From Mr. Gould's collection.



**DASYPOGON Copreus**, n. s., fem. *Ferrugineus, thorace flavo-fusco, abdominis segmentis 3<sup>o</sup>, 4<sup>o</sup>, 5<sup>o</sup>, et 6<sup>o</sup> nigris, antennis pedibusque ferrugineis tarsorum articulis apice nigris, alis fulvis.*

Body ferruginous: head narrower than the chest, thickly clothed behind and beneath with tawny hairs, beset behind the eyes with a row of tawny bristles; clypeus armed with about fourteen pale yellow spines: eyes black; fore part flat, dark bronze, its facets larger than those of the other part: lip black, long, clothed at the tip with short tawny hairs; palpi ferruginous, clothed with tawny hairs and bristles: first and second joints of the feelers ferruginous; first joint beset with some short black hairs; second joint much longer than the first: neck with a cross-row of tawny bristles; chest yellowish brown, thinly clothed with tawny hairs, beset on each side and behind with long black bristles: breast clothed with a few tawny hairs: abdomen tapering from the base to the tip, narrower than the chest and more than twice its length, thinly clothed with short tawny hairs, shining towards the tip; segments from the third to the sixth black, excepting their hind borders; first and second segments short; third and following segments long, but successively decreasing in length: legs ferruginous, thinly clothed with short black hairs, and beset with black spines; tips of the joints of the feet and claws black; foot-cushions tawny; tips of fore shanks armed with a black curved tooth corresponding with some black tubercles at the base of the feet: wings tawny; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body 13 lines; of the wings 21 lines.

a. ——— ?

**DASYPOGON Silanus**, n. s., mas. *Fuscus, thorace ferrugineo bivitato, capite pectore thoracisque lateribus fulvis, antennis pedibusque ferrugineis, alis fulvis apicibus subcinereis.*

Head tawny, a little narrower than the chest, beset behind the eyes with a row of black bristles, clothed beneath with pale tawny hairs; clypeus armed with long pale yellow bristles: eyes black; fore part slightly convex, its facets but little larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi ferruginous, their tips beset with ferruginous hairs: feelers ferruginous; second joint much longer than the first, very slightly club-shaped, beset with a few black hairs; third joint spindle-shaped, a little longer than the first and the second joints: ridge of the neck beset with a row of black bristles: chest reddish brown, with two slender indistinct ferruginous stripes, beset on each side and behind with black bristles; breast and sides of the chest tawny, covered with shining down: abdomen brown, slightly tapering from

the base to the tip, a little narrower than the chest and more than twice its length; hind borders of the segments and tip ferruginous, the latter shining and clothed with tawny hairs; first segment very short; second segment short; third segment long, with a cross furrow near its base; following segments successively decreasing in length: legs ferruginous, thinly clothed with very short black hairs and beset with some black spines; feet black towards the tips; claws black; foot-cushions tawny; tip of each fore shank armed with a curved black tooth, which corresponds with some black tubercles at the base of each fore foot: wings tawny, light gray at the tips; wing-ribs ferruginous; veins black; poisers piceous. Length of the body 13 lines; of the wings 20 lines.

a. ——— ?

**DASYPOGON** Potitus, n. s. *Fulvus, thoracis vittis tribus piceis ferrugineo marginatis, abdomine ferrugineo, segmentis piceo maculatis albidoque fasciatis, antennis fulvis apice ferrugineis, pedibus alisque fulvis.*

Body dull: head tawny, as broad as the chest, covered with thick shining pale down, which appears yellow or tawny according to the light in which it is seen; crown beset with tawny bristles: a fringe of pale yellow bristles along the borders of the eyes; tubercle of the eyelets armed with black bristles: clypeus furnished with numerous long white bristles: eyes bluish black, divided as usual into two parts which are distinctly marked: lip black, furnished at the tip with a cluster of yellow hairs; the other parts of the mouth ferruginous; palpi rather long, clothed with long yellow hairs: feelers tawny; first joint beset with yellow hairs and with a very few short black hairs; second joint longer than the first, beset with short black hairs and longer black bristles; third joint ferruginous, very long spindle-shaped, as long as the first and the second, beset with a very few short black hairs: chest and breast tawny: chest covered with short black hairs, and adorned with three broad ferruginous stripes, each enclosing a piceous stripe; the middle piceous stripe divided by a ferruginous line; sides of the chest beset with black bristles: breast rather paler than the chest, thinly clothed with yellow hairs: abdomen ferruginous, decreasing in breadth from the base to the tip, narrower than the chest and about twice its length, clothed with very short yellow hairs, and with longer yellow hairs at the tip which is shining; a large piceous spot on each side of every segment blends imperceptibly with the ferruginous hue; a whitish band occupies the hind border of every segment, and is widened on each side into a triangular spot; first segment extremely short; second segment short, with a cluster of yellow bristles on each side;

third segment long, having a cross furrow, which with a row of numerous black punctures accompanies a whitish band like those on the hind borders; the following segments successively decreasing in length; a row of black punctures on the fore borders of the fourth segment; under-side tawny, slightly shining, not hairy, furrowed with very small cross-lines: legs tawny, covered with short black hairs; thighs beset with two or three spines; these are more numerous on the shanks and on the feet; foot-joints from the first to the third with ferruginous tips; fourth and fifth joints ferruginous, with piceous tips; claws black; foot-cushions yellow; fore legs armed with a long curved black tooth at the tip of each shank, and with numerous corresponding little black tubercles at the base of the foot: wings tawny; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers dark tawny. Length of the body 11 lines; of the wings 20 lines.

a. ——— ?

DASYPOGON Cerretanus, n. s. *Fulvus, thorace vittis tribus piceis ferrugineo limbatis, abdomine ferrugineo, segmentis nigro maculatis fulvoque fasciatis, antennis fulvis, apice ferrugineis, pedibus fulvis, alis limpidis apice subcinereis.*

Body dull: head as broad as the chest, clothed with thick shining down that appears tawny or whitish, according to the light in which it is seen: a fringe of yellow bristles along the rims of the eyes behind; under-side clothed with yellow hairs; two long black bristles on the tubercle of the eyelets: clypeus armed with nearly twenty long white spines: eyes bluish black, divided as usual into two parts, which are distinctly marked: lip ferruginous with a black tip: neck short, furrowed as usual, and beset with yellow bristles: chest and breast resembling those of the preceding species, but the piceous colour is more distinct: hind chest and scutcheon covered with shining yellow down, the latter armed with two long black bristles: abdomen ferruginous, decreasing in breadth from the base to the tip, narrower than the chest and full twice its length, clothed with very short yellow hairs, shining, and furnished with some longer tawny hairs towards the tip, which is armed with short black spines; a large black spot on each side of every segment, whose hind border is occupied by a tawny band which widens on each side into a triangular spot; second segment beset on each side with a cluster of yellow hairs and bristles; no punctures on the fore border of the fourth segment: legs tawny, clothed with short black hairs, armed with black spines; feet piceous towards the tips; claws black; foot-cushions tawny: wings colourless, slightly gray on the disks of the areolets, and more so at the tips; poisers bright

tawny; other characters like those of the preceding species. Length of the body 8 lines; of the wings 14 lines.

a. ——— ?

**DASYPOGON** *Ægon*, n. s., mas. *Ferrugineus, thorace piceo trivittato, abdomine piceo, fasciis ferrugineis vittisque lateralibus fulvis, antennis pedibusque fulvis, tarsis piceis, alis limpidis cinereo variis.*

Body ferruginous: head as broad as the chest, bright tawny above, black and clothed with some black hairs beneath the eyes; tubercle of the eyelets beset with two long black bristles; clypeus armed with long yellowish white bristles; hypostoma tawny, shining, clothed with pale yellow hairs: eyes dark green; fore part quite flat, composed of large facets, and distinct from the other part: lip dark ferruginous, black and clothed with short pale yellow hairs towards the tip; palpi and tongue tawny, the former clothed with yellow hairs: feelers tawny; first and second joints shining, clothed with a few yellow hairs; second joint beset with one or two bristles, about twice the length of the first; third joint spindle-shaped, a little longer than the first and the second joints: chest with three broad piceous stripes, thinly clothed with very short black hairs, beset on each side and behind with black bristles: abdomen piceous, tapering from the base to the tip, narrower than the chest and about twice its length; sides of the segments with a pale tawny stripe, increasing in breadth from the fore border to the hind border, which is ferruginous; some yellow bristles on each side of the second segment; segments from the third to the sixth successively but slightly decreasing in length; seventh, eighth and ninth segments smaller, shining: legs tawny, clothed with short black hairs, and beset with black bristles, which are very short on the thighs and shanks, but long on the tips of the latter and on the feet; feet piceous at the tips; claws black; foot-cushions tawny, yellow beneath; tips of fore shanks armed with a long black curved tooth, corresponding with little black tubercles at the base of the feet: wings colourless, gray at the tips and thence along part of the hind border and on the disks of some of the areolets in the middle of the wing; wing-ribs piceous; veins black, piceous towards the base; the rudiment of a vein at the end of the areolet in the middle of the wing; poisers tawny. Length of the body 10 lines; of the wings 16 lines.

a. ——— ?

**DASYPOGON Anemetus**, n. s. mas. *Aureus, thoracis vittis quinque nigris, abdomine ferrugineo maculis lateralibus nigris albidisque, antennis ferrugineis, pedibus fulvis, alis limpidis apicibus marginibusque posticis cinereis.*

Head tawny, as broad as the chest, covered above with bright golden down, clothed along the borders of the eyes with a row of tawny bristles above and with a fringe of tawny hairs beneath; tubercle of the eyelets beset with two long black bristles; clypeus armed with many long pale yellow bristles; eyes dark purple; fore part flat, bronze-black, and distinct also from the convex part by its larger facets, and by a slight angle which marks its border: lip piceous, clothed at the tip with short tawny hairs; palpi ferruginous, clothed with tawny hairs; hypostoma pale tawny, clothed with yellow hairs: feelers ferruginous; first and second joints covered with short black hairs; second joint beset with a single stout black bristle; third joint spindle-shaped, a little longer than the first and the second joints, clothed above with short black hairs till near the tip, which is paler; following segments almost obsolete: ridge of the neck beset with a row of long tawny hairs: chest covered with golden down, thinly clothed with short black hairs, beset on each side and behind with long black bristles, adorned with three deep black stripes; middle stripe inlaid with a narrow tawny stripe; side stripes very short and interrupted by two oblique tawny bands; shoulders ferruginous; breast tawny, almost hairless: abdomen ferruginous, tapering from the base to the tip, narrower than the chest and more than twice its length, clothed with very short black hairs, beset on each side at the base with a few long pale yellow hairs, and with two long tawny spines, adorned along each side with a whitish yellow stripe, which is widened towards the hind border of each segment; a large black spot occupies the side of each segment from the fore border to the middle; first segment extremely short, crossed by rows of little punctures; second segment short, its hind border yellow; third segment long, with a cross row of punctures near the base, which is piceous; following segments successively decreasing in length to the tip, which is piceous and rather thickly clothed with tawny and black hairs: legs tawny, clothed with short tawny hairs; shanks and feet beset with black spines of various length; tips of feet, of hind thighs and of hind shanks piceous; claws black; foot-cushions yellow; tips of fore shanks armed with a black curved tooth, corresponding with little black tubercles at the base of the fore feet: wings colourless, gray towards the tips and along the hind borders; disk of the areolets in the middle of the wings also gray; wing-ribs ferruginous; veins black, piceous

towards the base, ferruginous along the fore border; poisers dark ferruginous. Length of the body 10 lines; of the wings 18 lines.

a. ——— ?

**DASYPOGON** Phalna, n. s., mas. *Aureus, thoracis vittis tribus nigris, abdomine ferrugineo maculis dorsalibus fuscis, lateribus fulvis, antennis ferrugineis, pedibus fulvis, alis limpidis apicibus marginibusque posticis cinereis.*

Body longer and more slender than that of *D. Anemetus*: head tawny, as broad as the chest, covered above with bright golden down, clothed along the borders of the eyes with a row of tawny bristles above, and with a fringe of tawny hairs beneath; tubercle of the eyelets beset with two long black bristles; clypeus armed with many long pale yellow bristles; eyes dark bronze; fore part flat, composed of larger facets than those of the convex part, from which it is also separated by the slight angle along its border: lip piceous, clothed at the tip with short tawny hairs; palpi ferruginous, clothed with tawny hairs; hypostoma pale tawny, clothed with yellow hairs: feelers ferruginous; first and second joints covered with short black hairs; second joint beset with a single stout black bristle; third joint spindle-shaped, a little longer than the first and the second joints, clothed above with short black hairs till near the tip, which is paler; following joints almost obsolete: ridge of the neck beset with a row of long tawny hairs: chest covered with golden down, thinly clothed with short black hairs, beset on each side and behind with long black bristles, adorned with three black stripes; the middle stripe is cleft in its fore part only; side stripes interrupted by two oblique tawny bands, longer than those of *D. Anemetus*; shoulders ferruginous: breast tawny, almost hairless: abdomen ferruginous, tapering from the base to the tip, narrower than the chest and nearly thrice its length, clothed with very short black hairs, beset on each side at the base with a few long pale yellow hairs, and with two or three long tawny spines, adorned along each side with a pale tawny stripe, which is widened towards the hind border of each segment; disks of the third and following segments brown; first segment extremely short, crossed by rows of little punctures; second segment short; third segment long, with a cross row of punctures near the base; following segments successively decreasing in length; tip clothed with tawny and black hairs: legs tawny, clothed with short tawny hairs; shanks and feet beset with black spines of various length; tips of feet, of hind thighs and of hind shanks piceous; claws black; foot-cushions tawny; tips of fore shanks armed with a black curved tooth, corresponding with little black tubercles at the base of the fore feet: wings colourless, shorter than those of *D. Anemetus*,

gray towards the tips and along the hind borders ; disks of the areolets in the middle of the wings also gray ; wing-ribs ferruginous ; veins black, piceous towards the base, ferruginous along the fore border ; poisers tawny. Length of the body  $7\frac{1}{2}$  lines ; of the wings 11 lines.

a. ——— ?

DASYPOGON *Winthemi* ? *Wied. Dipt. Exot.* i. 223, 17. *Auss. Zweif.* i. 387, 32.

a. South America ? Presented by the Entomological Club.

DASYPOGON *Eburnus*, n. s. *Fulvus, thoracis vittis tribus nigro-fuscis, antennis fulvis apice ferrugineis, abdomine pedibusque ferrugineis, alis subfulvis.*

Head piceous, as broad as the chest, covered with pale yellow down, clothed behind and on the sides with white hairs, beset behind the eyes with a few black bristles ; clypeus armed with seven or eight long white bristles ; eyes bronze ; fore part nearly flat, its facets rather larger than those of the other part : lip black, shining, ferruginous, and clothed with very short pale yellow hairs at the tip ; palpi black, clothed with black hairs : first and second joints of the feelers tawny, beset with some stout black hairs,—these are mostly on the second joint, which is slightly club-shaped and rather longer than the first ; third joint ferruginous, spine-shaped, as long as the first and the second joints : chest tawny, thickly clothed with black hairs, and beset on each side with some very long black bristles, adorned with three blackish brown stripes on the disk ; middle stripe including a paler stripe ; side stripes short, interrupted by two oblique yellow bands : breast tawny : abdomen ferruginous, thinly clothed with short tawny hairs, narrower than the chest and nearly twice its length, almost linear till near the tip, which is shining ; first and second segments short ; third and following segments long, but successively decreasing in length : legs ferruginous, clothed with very short tawny hairs ; hips dark tawny ; shanks beset with very long black bristles ; feet armed with short black bristles ; claws black ; foot-cushions tawny ; tips of fore shanks armed with a curved black tooth, corresponding with some little black tubercles at the base of the feet : wings slightly tawny : wing-ribs ferruginous ; veins piceous, black towards the tips ; poisers tawny. Length of the body 5 lines ; of the wings 9 lines.

a. Para. Presented by Gordon Graham, Esq.

## Group VIII.

**DASYPOGON plumbeus**, *Fabr. Syst. Antl.* 165, 8. *Wied. Auss. Zweif.* i. 413, 78. *Asilus plumbeus*, *Fabr. Ent. Syst.* iv. 382, 27.

a. New Holland.

**DASYPOGON** *Bœbius*, n. s. *Fuscus, capite albo, antennis ferrugineis articulo 3<sup>o</sup> nigro basi ferrugineo, pedibus nigris, alis limpidis venis subfusco limbatis.*

Body brown: head white, a little narrower than the chest, thickly clothed behind and beneath with pale yellow hairs, covered above with yellow down, beset behind the eyes with a row of black bristles; sides of the crown beset with black hairs; front thickly clothed with long pale yellow hairs; clypeus armed with numerous long yellow spines: eyes dark bronze; fore part flat, composed of larger facets than is the rest of the eye: lip and palpi black, the latter and the tip of the former clothed with tawny hairs: feelers ferruginous; first and second joints thickly clothed with pale yellow hairs; second joint much shorter than the first; third joint black, spindle-shaped, ferruginous at the base, as long as the first and the second joints; fourth and fifth joints extremely short: neck beset with a cross row of black bristles: chest clothed with a few short pale yellow hairs, beset on each side and behind with long black bristles: breast covered with a gray bloom and clothed with a few short pale yellow hairs: abdomen narrower than the chest and nearly twice its length, tapering from the base to the tip, thinly clothed with short pale yellow hairs; first and second segments short; third and following segments long, but successively decreasing in length to the tip, which is armed with a circlet of black spines: legs black, clothed with short pale yellow hairs, and beset with very long pale yellow bristles; claws black, tawny at the base; foot-cushions pale tawny; fore shanks unarmed: wings colourless; veins slightly bordered with brown, which hue disappears at the base, at the tips, and along the hind borders; wing-ribs piceous; veins black; poisers tawny. Length of the body  $8\frac{1}{2}$  lines; of the wings 12 lines.

a. Port Essington. From Mr. Gould's collection.



## Group IX.

**DASYPOGON** Allia, n. s., fem. *Ferrugineus, capite nigro, thoracis vittis tribus nigris, pectore piceo, abdomine fasciis nigris, pedibus fulvis, femoribus plerumque piceis, alis subfulvis.*

Head black, a little narrower than the chest, covered with tawny down, clothed behind and beneath with tawny hairs, and beset behind the eyes with tawny bristles; clypeus armed with ten or twelve long yellow spines: eyes bronze; fore part flat, its facets not larger than those of the other part: lip black, partly ferruginous, clothed at the tip with short tawny hairs; palpi ferruginous, clothed with tawny hairs; first joint linear; second joint club-shaped, much shorter than the first: neck beset with a cross row of tawny bristles: chest ferruginous, with three broad black stripes, thinly clothed with short tawny hairs, and beset with some tawny bristles on each side; side stripes shortened in front; scutcheon and hind chest piceous, the latter with a large ferruginous spot on each side: breast piceous: abdomen ferruginous, linear for one-third of the length from the base, spindle-shaped thence to the tip, a little narrower than the chest and about twice its length; first and second segments short, black; third and following segments long, but successively decreasing in length to the tip, which is clothed with tawny hairs and armed with a circlet of short ferruginous spines; fore borders of third, fourth and fifth segments black: legs tawny, thinly clothed with tawny hairs, and beset with some tawny spines; hips, hind thighs except the tips, middle thighs from the base to the middle, and fore thighs at the base, piceous; claws black, tawny from the base to the middle; foot-cushions tawny; tips of fore shanks armed with a long curved black tooth, corresponding with a short blunt tooth near the base of the fore feet: wings tawny along the fore half, and along the borders of the veins of the hind half, which is nearly colourless; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body 12 lines; of the wings 22 lines.

a. ——— ?

**DASYPOGON** Carus, n. s. *Fulvus. capitis vertice nigro, thorace nigro fulvo quadrivittato, abdomine nigro-fasciato, antennis ferrugineis, pedibus fulvis, femoribus plerumque piceis, alis fulvis discis sublimpidis, apicibus marginibusque posticis subcinereis.*

Head tawny, as broad as the chest, rather thickly clothed with tawny hairs; a black band on the crown between the base of

the feelers and the tubercle of the eyelets; clypeus prominent, armed with long tawny spines; front covered with close golden down: eyes bronze, slightly convex in front, where the facets are but very little larger than in the other part, and the division of the eye into two regions can hardly be traced: lip ferruginous, short, beset with long tawny hairs, and clothed at the tip with short yellow hairs: feelers ferruginous: first and second joints beset with a few ferruginous hairs; second joint cup-shaped, much shorter than the first; third joint slightly tapering from the base to the tip, more than twice the length of the first and second joints: chest and breast black; each side of the chest with a bright tawny stripe, which is widened on the fore part and in front of the scutcheon behind; scutcheon and sides of the hind chest clothed with tawny down, which also more slightly covers the back of the chest where it is disposed in two stripes, and these, like the side stripes, are beset with tawny bristles: abdomen tawny, cylindrical, narrower than the chest and more than twice its length, slightly decreasing in breadth for one-third of its length, and spindle-shaped thence to the tip, clothed with short black hairs, and having a tuft of black bristles on each side of the second segment; first and second segments and fore borders of the third segment black; fourth segment black on the fore border; fifth segment black, excepting the hind border; third segment crossed by a furrow near the base: legs tawny, clothed with short tawny hairs; hips and trochanters black; thighs thickly crossed with little furrows; hind thighs, middle thighs except the tips, and fore thighs at the base, piceous; shanks and feet beset with tawny spines; claws black, tawny towards the base: foot-cushions tawny: fore legs armed with a long curved tawny tooth at the tip of the shank, and with a corresponding short blunt tawny tooth at the base of the foot: wings bright tawny, especially at the base and on the fore borders; tips and hind borders slightly tinged with gray, their disks almost colourless; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body 7—11 lines; of the wings 12—20 lines.

Allied to *Laphria coarctata*, *Perty, Del. Anim. Art.* 181, *pl.* 36, *f.* 4.

a. ——— ?

*DASYPOGON* *Numicius*, n. s., fem. *Niger, thoracis lateribus fasciâ-que ferrugineis, abdomine apice nigro, antennis pedibusque fulvis, femoribus plerumque nigris, alis fulvis.*

Body black, stout: head not broader than the chest, clothed on the crown, behind and about the mouth with dark tawny hairs, and beneath with black hairs: clypeus armed with nine tawny spines;

hypostoma tawny; eyes dark blue, the inner or front part flat, the outer part convex, but all the facets very small and with no perceptible difference in size: lip short, tawny, marked with black, thinly clothed with tawny hairs, and having a tuft of shorter tawny hairs at the tip: feelers tawny; first and second joints of equal length, beset with short black hairs; third joint linear, about twice the length of the first and of the second; fourth joint extremely small: neck short, black, beset with a cross row of tawny bristles: chest and breast dull, very finely and closely punctured: sides of the chest ferruginous, with a few tawny hairs and pale yellow bristles; this ferruginous stripe is widened in the fore part, and also behind, where it forms a band in front of the scutcheon: abdomen ferruginous, smooth, shining, narrower than the chest and about twice its length; first and second segments mostly black; first segment very short; second segment very convex; fourth, fifth and sixth segments black, dull, very finely punctured, their disks more or less ferruginous: the abdomen has a few short tawny hairs, but these are longer and more abundant at the tip, which is armed with short tawny spines: legs tawny, beset with tawny hairs and spines; hips, base of fore thighs, middle thighs from the base to beyond the middle, and hind thighs except their tips, black; fore legs armed with a long curved black tooth at the tip of the shank, and with a short blunt tooth at the base of the feet; claws black, tawny at the base; foot-cushions tawny: wings bright tawny, paler along the hind borders; wing-ribs and veins ferruginous; poisers tawny. Length of the body 10 lines; of the wings 17 lines.

a. ——— ?

**DASYPOGON** Volcatius, n. s. *Ferrugineus, capite nigro, abdomine piceo, antennis pedibusque ferrugineis, alis fulvis marginibus posticis pallidioribus.*

Head black, not broader than the chest, covered between the feelers and the clypeus, and behind, with thick bright tawny down, and slightly clothed behind and beneath with black hairs: clypeus armed with about twelve long white bristles: hypostoma tawny: lip rather longer than the head, beset with a few black hairs, tawny at the base, ferruginous at the tip, where it has a cluster of short yellow hairs; palpi ferruginous, rather long, nearly one-third of the length of the lip, clothed—especially at the tip—with long black hairs: eyes dull brass colour; fore part flat, composed of large facets, which regularly decrease in size as they diverge towards the outer convex part, which, however, is separated from the inner part by a very clearly defined line, the facets in the former being all extremely small and of much less size than the least of those on the front;

first and second joints of the feelers ferruginous, of equal length, beset with short black hairs: chest and breast ferruginous, covered with shining tawny down, and when this is effaced three broad piceous stripes appear on the back; scutcheon tawny; hind chest rather large; sides of the chest beset with black hairs and bristles: abdomen piceous, clothed with short black hairs, slightly shining, linear towards the base, spindle-shaped towards the tip, narrower than the chest, but not twice its length; hind borders of the segments tawny, especially those of the third and fourth segments; first segment very short; second segment also short, rather broad, its sides beset with black hairs and bristles; third segment long, with a cross furrow near the base, which is dark ferruginous; the following segments successively decreasing in length; the tip clothed with a few short tawny hairs, and armed with some short black spines: legs ferruginous, clothed with short black hairs; shanks clothed with short tawny hairs and armed with some black spines; tips of foot-joints also armed with black spines; first joint clothed with tawny hairs; claws black; foot-cushions tawny; fore legs armed with a long black curved tooth at the tip of each shank, and with a corresponding short blunt tawny tooth at the base of each foot: wings bright tawny at the base and along the fore borders, much paler along the hind borders; wing-ribs and veins ferruginous; poisers bright pale yellow. Length of the body 9 lines; of the wings 17 lines.

a. ———♀

DASYPOGON Spinther, n. s. *Ferrugineus, abdomine rufo, basi fasciâque nigris, apice ventreeque ferrugineis, antennis pedibusque ferrugineis, femoribus nigro-vittatis, alis fulvis, discis marginibusque posticis subcinereis.*

Body ferruginous: head hardly as broad as the chest, clothed more thickly than usual with tawny hairs: a piceous band on the crown of the head across the eyelets: clypeus thickly beset with tawny bristles: eyes bronze-black, divided as usual into two parts, which are distinctly marked: lip black, short, thick, its tip clothed with a few short yellow hairs: first and second joints of feelers ferruginous, of equal length, clothed with tawny hairs: chest and breast ferruginous, the latter and the sides of the former with large patches of shining tawny down: abdomen slightly convex, hardly narrower than the chest and rather less than twice its length, thinly clothed with short yellow hairs; first and second segments black; first segment very short; second segment rather short, broad and convex, with a red tubercle on each side, where it is beset with tawny hairs and with a black spine: third segment long, red, having

along the fore border a black band, whose hind border is interrupted by a semicircular inlet of the red; fourth segment red, black on the fore border, a little shorter than the third; fifth segment deep velvet-like black, a little longer than the third; sixth segment ferruginous, black on the fore border; seventh segment tawny; under-side ferruginous, shining; each segment with three black spots, the middle one behind the other two, but hardly separate from them: legs ferruginous, thinly clothed with tawny hairs; a black stripe on each thigh; shanks and feet beset with a few black spines; claws black; foot-cushions tawny; fore legs armed with a long black curved tooth at the tip of each shank, and with numerous little corresponding black tubercles at the base of each foot: wings tawny, colourless, or with a slight gray tinge on the disks and from thence to the hind borders; wing-ribs ferruginous; veins partly ferruginous, partly piceous; poisers tawny, with yellow knobs. Length of the body 8 lines; of the wings 16 lines.

a. West Australia. From Mr. Clifton's collection.

### Group X.

*DASYPOGON castaneus*, Macq. *Dipt. Exot.* i. 2, 35, 6.

a. ———?

*DASYPOGON brunneus*? *Fabr. Syst. Antl.* 165, 9. *Wied. Dipt. Exot.* i. 219, 9. *Auss. Zweif.* i. 382, 26. *Asilus brunneus*, *Fabr. Mant. Ins.* ii. 359, 20. *Ent. Syst.* iv. 382, 28.

a. Brazil. From Mrs. Mornay's collection.

*DASYPOGON* Alcippe, n. s., mas. *Fulvo-fuscus, thorace fusco trivittato, lateribus albis, abdomine nigro maculis fulvis, antennis pedibusque fulvis, tibiis tarsorumque articulis apice piceis, alis subfulvis.*

Head brown, hardly broader than the chest, covered—especially above and on the front—with thick shining white down, clothed behind and beneath with black hairs, and with a few of the same on the tubercle of the eyelets and above the feelers, having also four long shining white bristles and a few black hairs on the clypeus: lip black, not longer than the head, clothed at the tip with short pale yellow hairs: eyes divided into two spaces; the inner space, or that part of the eye by which the fly sees before it, is blue, flat, and composed of large facets, which successively decrease as they diverge towards the outer part, which is convex, composed of small facets of equal size, and is larger than the inner part, which it half encircles: feelers tawny; first and second joints beset with black hairs; second

joint a little longer than the first, covered with long black bristles : fore chest brown, covered on the hinder part with a white bloom : chest yellowish brown, with three broad rich brown stripes in the middle, and a brilliant white stripe on each side, where there are two or three long white spines ; the middle brown stripe is shorter than the side stripes, and does not reach the scutcheon, which is rich brown and has a tawny hind border covered with white bloom : breast hoary, with a tawny oblique band on each side : abdomen cylindrical, black, shining, clothed with short black hairs, much narrower than the chest and much more than twice its length ; first segment very short, tawny at the base ; second segment semicircular, gibbous in the middle, tawny on each side ; third segment long, tawny, with a long triangular black spot, whose tip approaches the fore border, which is yellowish ; fourth segment tawny on each side, longer than the third ; fifth and three following segments covered with a hoary bloom ; seventh and eighth short, piceous ; tip of the abdomen armed with short tawny spines ; under-side dull black, excepting the segments from the first to the fourth, which are dull tawny : legs tawny, clothed with short black hairs ; tips of shanks and of the joints of the feet piceous ; hips covered with a hoary bloom ; thighs with a few yellow spines ; shanks with more and longer spines, and these are still more frequent on the feet, where the black hairs are also more abundant ; claws black, tawny at the base ; foot-cushions yellow : wings tawny, especially at the base and along the borders of the veins ; disks of the areolets mostly colourless ; wing-ribs and veins tawny, the latter piceous on the fore borders ; poisers tawny. Length of the body 10 lines ; of the wings 18 lines.

a. Port Natal.. From Dr. Krauss's collection.

*DASYPOGON* Herennius, n. s., fem. *Rufo-fuscus, capite fulvo, thorace vittis tribus nigris, abdomine piceo, antennis nigris, pedibus fulvis, tibiis ferrugineis, tarsis piceis, alis fuscis.*

Body rich reddish brown : head tawny, a little broader than the chest ; hinder part dark tawny, and beset with black bristles along the borders of the eyes ; front covered with pale yellow shining down ; clypeus armed with long white spines : eyes bronze ; the fore part flat, composed of large facets, forming an edge along its border and quite distinct from the other part ; lip black, shining, longer than the head, its tip clothed with short tawny hairs ; palpi black, rather long, clothed with long black hairs : feelers tawny ; first and second joints beset with a few black bristles ; second joint a little longer than the first ; third joint spindle-shaped, black at the tip, beset with short black bristles, a little longer than the first and second joints : chest with three black stripes ; the two side stripes

short, oblique and rather indistinct; the middle one linear, longer and broader, its fore part divided lengthwise by a narrow line: breast and sides of the chest paler, the latter beset with a few long stout black bristles: abdomen piceous, shining, linear, flat, obconical, a little narrower than the chest and more than twice its length, obconical and red towards the tip, which is armed with short black spines; under-side paler, dull; first segment very short; second segment short, broader and more convex; third segment long; the following segments successively decreasing in length: legs tawny, covered with short black hairs; hips pale reddish brown, with a few tawny bristles; thighs covered at the base with shining yellow down; shanks and feet clothed more thickly than the thighs with black hairs; shanks ferruginous, beset with a few black spines, which are longer towards the tips; feet piceous, more thickly armed with short black spines, pale tawny towards the base; claws black, each with a stout tooth at the base beneath; foot-cushions pale tawny; fore shanks armed at the tip beneath with a black stout curved tooth, corresponding to some little black tubercles beneath the base of the feet: wings dark brown, paler on the lower border towards the base and on some of the areolets of the disk; wing-ribs and veins piceous, the latter black towards the tips. Length of the body 9—10 lines; of the wings 14—16 lines.

*a. Cincinnati.* Presented by E. Doubleday, Esq.

*DASYPOGON* Duillius, n. s. *Fulvus, thorace fusco trivittato, alboque maculato, abdomine piceo lateribus ferrugineis, antennis fulvis, pedibus ferrugineis, alis fuscis.*

Head tawny, a little broader than the chest, piceous on the crown, where, as well as along the hind rims of the eyes, it is beset with black bristles; it is clothed beneath with tawny hairs, and thickly covered between the base of the feelers and the clypeus with pale yellow down; clypeus armed with ten or twelve long white bristles: lip short, black, tawny towards the base, where it has some tawny hairs, and there is a little tuft of short yellow hairs at the tip; palpi rather long, tawny and clothed with tawny hairs towards the base, ferruginous and clothed with black bristles towards the tip: eyes brassy green; fore part flat, composed of large facets, which diminish in size as they diverge towards the outer and convex part of little unvarying facets, but the division is not near so distinct as in some other species: feelers tawny; first and second joints beset with black bristles; second joint much longer than the first; third joint very long, spindle-shaped, longer than the first and the second joints, but not twice their length, clothed with a few black hairs: fore chest short: chest dark tawny, paler on each side,

adorned with three rich dark brown stripes; middle stripe longer than the side stripes, ferruginous in front and coming near to the scutcheon behind; side stripes much shorter in front and a little longer behind; there is also a white mark on each side near the fore chest; sides of the chest beset with some black hairs and longer black bristles: breast partly covered with a hoary bloom: abdomen cylindrical, piceous, rather thickly clothed with short black hairs, much narrower than the chest and twice its length; sides of the segments ferruginous; under-side also ferruginous, and having a piceous stripe along its whole length; first and second segments short; the following segments, from the third to the tip, successively decreasing in length: legs ferruginous, clothed with short black hairs; shanks beset with a few black bristles, their tips and the tip of each foot-joint armed with a circlet of black spines; shanks at the base and foot joints (excepting their tips) tawny; claws black; foot-cushions pale yellow; fore legs armed with a long curved black tooth at the tip of the shank, and with a short blunt tawny tooth at the base of the foot: wings brown, darkest at the base and along the fore border for half the length; wing-ribs and veins piceous; poisers dark tawny. Length of the body 12 lines; of the wings 22 lines.

a. Honduras. From Mr. Miller's collection.

*DASYPOGON* Carvilius, n. s., fem. *Ferrugineus, capite nigro, thorace nigro quadrivittato, scutello fulvo, abdomine apice piceo, antennis foveis apice nigris, pedibus ferrugineis, alis fulvis basi et ad costam subfuscis.*

Head black, not broader than the chest, tawny on the front, clothed behind and beneath with black hairs, and having a few black bristles on the crown and along the rims of the eyes; clypeus armed with about twelve white bristles, and having also a few white hairs: lip short, black, shining, tawny at the base, furnished with a few tawny hairs, and having a tuft of short yellow hairs at the tip; palpi black, rather long, clothed with tawny hairs and black bristles, the latter chiefly at the tips: eyes dull bronze; fore part flat, composed of large facets, which, however, decrease in size as they diverge towards the outer part; the latter, or the means of the upward, the downward and the side sight, are, as usual, convex and composed of very small facets of equal size: feelers tawny; first and second joints beset with short black hairs; second joint a little shorter than the first; third joint black, very long spindle-shaped, clothed with a few black hairs, nearly twice the length of the first and of the second; fourth joint very small: fore chest black, furrowed across, beset with black bristles: chest and breast ferruginous, with a few black hairs and bristles: chest with four black stripes; the two middle



stripes narrow, long and linear; the outer stripes short, broad, and not extending over the fore part of the chest; scutcheon tawny: abdomen ferruginous, dull, very finely punctured, clothed with short black hairs, and towards the tip with longer tawny hairs, somewhat narrower than the chest and about twice its length; base and last three segments more or less piceous on the back; first and second segments short, beset on each side with black bristles; third segment long, with a cross impression before the middle; fourth and following segments successively decreasing in length to the tip: legs ferruginous, rather thickly clothed with short tawny hairs; hips black; shanks having very few black spines, but these are more frequent on the feet, especially towards the tips of the joints; claws black; foot-cushions pale yellow; fore legs armed with a long curved black tooth at the tip of the shank, and with a short blunt tawny foot at the base of the foot: wings tawny, with a brown tinge at the base and along the fore border for about half the length; wing-ribs and veins ferruginous; poisers tawny. Length of the body 9 lines; of the wings 16 lines.

a. ——— ?

### Group XI.

**DASYPOGON** Libo, n. s. *Canus, thoracis disco fusco vittis tribus pallidioribus, abdomine rufo-fusco basi apiceque pallidioribus, antennis pedibusque nigris, alis subfuscis fusco subvittatis.*

Body dull: head hardly as broad as the chest, covered with thick shining yellowish white down, clothed behind and beneath with yellow hairs, and having a few black hairs on the crown and on the tubercle of the eyelets: rims of the eyes beset with black bristles: clypeus armed with eight long pale yellow bristles, and also beset with some tawny hairs and long black bristles: lip black, a little longer than the head, clothed with very few long yellow hairs, and having a group of short yellow hairs at the tip; tongue ferruginous; maxillæ and labrum tawny: eyes black, with a very slight purplish tint; fore part, its facets large, but decreasing in size as they diverge towards the convex part, not however so as to blend with the latter, which has extremely small facets: feelers black, a little longer than the head; first and second joints of equal length, beset with black bristles; third joint long club-shaped, nearly as long as the first and the second joints, but much more slender: fore chest distinct, with a cross furrow: chest and breast hoary; disk of the chest dark brown, with three narrow indistinct pale stripes; sides beset with black bristles; breast clothed with long yellowish white

hairs: abdomen decreasing in breadth from the base to the tip, clothed with short yellow hairs, narrower than the chest and rather less than twice its length; first segment short, black; second segment a little longer, rather broad, covered with a tawny bloom, its sides beset with pale yellow bristles; third segment long, with a cross suture near its base; the following segments successively decreasing in length to the tip, which is armed with short piceous spines; third, fourth and fifth segments bright reddish tawny; sixth and following segments black, shining, with numerous but very slight cross furrows: legs black, thinly clothed with tawny hairs; hips hoary; thighs with some black spines; more of these on the shanks, and still more on the feet, which are also most hairy; claws black; foot-cushions tawny; fore legs unarmed: wings light brown, darker at the base and along a streak in the disk; wing-ribs and veins piceous; poisers tawny. Length of the body 11 lines; of the wings 20 lines.

a. East Indies. From Archdeacon Clerk's collection.

*DASYPOGON* Ædon, n. s. *Niger, thorace fulvo trivittato, pectore fulvo, abdomine cinereo albo fuscoque vittato, antennis pedibusque nigris, alis subfulvis apice cinereis.*

Body deep velvet-like black: head short, a little broader than the chest, covered with shining pale yellow down between the clypeus and the base of the feelers, hoary and clothed with black hairs behind and beneath; crown beset with some black hairs; clypeus armed with long black hairs and still longer white bristles: eyes bluish black, divided as usual into two parts, which are distinctly marked: lip black, clothed with black hairs at the base, tawny and bearing a group of short yellow hairs at the tip: feelers black; first and second joints of equal length, beset with black bristles and hairs; third joint club-shaped, as long as the first and the second joints, narrower than them at the base, but much broader at the tip: chest with three stripes and some other traces of pale tawny down; sides beset with black bristles and hairs, and there are a few of the latter—but of smaller size—on the back: breast pale tawny, with a hoary bloom, thinly clothed with pale hairs, and having a more or less brown tinge where it joins the chest: abdomen nearly linear, but somewhat increasing in breadth at the base and at the tip, clothed with short yellow hairs and at the tip with longer yellow hairs and black bristles, much narrower than the chest and less than twice its length; first segment very short; second segment a little longer, with a cluster of yellow hairs and black bristles on each side; third segment long, divided into two parts by a cross furrow; the fore part gray, the hind part white; on the furrow between them are

two rows of round punctures, of which the three on each side of the middle of the furrow form an angle upwards; segments from the third to the last successively decreasing in length; fourth segment white, and having on its fore border two rows of punctures disposed like those of the preceding segment; fifth segment white, with a single row of punctures on its fore border, having—as has also the fourth—some punctures on the middle of each side; sixth segment deep rich brown, white on each side of the fore border, where there is a single row of punctures; seventh and eighth segments black; under-side gray, black at the tip: legs black, clothed with black hairs; shanks beset with some black bristles, more hairy than the thighs, but less so than the feet, where the black bristles are also most numerous; claws black; foot-cushions piceous; fore legs armed with a long curved black tooth at the tip of the shank, and with a short obtuse black tooth at the base of the foot: wings with a very slight tawny tinge, gray at the tips; wing-ribs and veins black; poisers piceous. Length of the body 8 lines; of the wings 16 lines.

*a. Venezuela.* From Mr. Dyson's collection.

*DASYPOGON Otacilius*, n. s. *Niger, capite nigro-fusco, thorace albo quadrivittato, abdomine croceo basi piceo apice ferrugineo, antennis nigris, pedibus ferrugineis, tibiis tarsisque apice, genubus, femoribus supra coxisque nigris, alis fulvo-fuscis cæruleo micantibus ad costam cinereis.*

Head dark brown, white and clothed with black hairs behind, covered with dark ferruginous silky down between the base of the feelers and the clypeus, which is armed with six long black bristles and with some black hairs; there is a band of the same ferruginous hue between the base of the feelers and the tubercle of the eyelets: eyes dark bronze colour, divided as usual into two parts, which are distinctly marked: lip black, ferruginous and clothed with short whitish hairs at the tip: feelers black; first and second joints of nearly equal length, clothed with black hairs; third joint long club-shaped, conical at the tip, more than twice the length of the first and of the second joints: fore chest and chest deep velvet-like black, the latter with four shining white stripes; the two middle stripes are short in front, but the side stripes are longer, and converge towards each other on the fore border of the chest; scutcheon, hind chest and breast also more or less overspread with silvery white down: abdomen orange, decreasing in breadth from the base to the tip, clothed with a few yellow hairs, narrower than the chest and less than twice its length; first segment piceous, very short; second segment short, rather broad and convex, and having a cluster of

yellow bristles on each side; third segment very long, with the usual cross furrow; the following segments successively decreasing in length; fourth and succeeding segments ferruginous, shining, furrowed with very slight and small cross lines; tip armed with short black spines; under-side more dull: legs ferruginous, clothed with short black hairs; hips, thighs above, knees, tips of shanks and of feet black; shanks and feet armed with black spines; claws black; foot-cushions yellow; fore legs not armed; wings yellowish brown, dark gray along the fore borders, adorned with a dark blue lustre; wing-ribs and veins black; poisers pale tawny. Length of the body 8 lines; of the wings 15 lines.

a. East Indies. From Archdeacon Clerk's collection.

## Group XII.

*DASYPOGON* Sura, n. s., mas. *Niger, pilis albis vestitus, thorace albo quadrivittato, abdomine apice rufo, antennis pedibusque nigris, tibiis anterioribus fulvis, alis nigro-fuscis.*

Body black: head as broad as the chest, white and clothed with white hairs behind and beneath, where the hairs are long, thick and silky; sides of the crown covered with a few black hairs; clypeus beset with black bristles: eyes bronze; fore part quite flat and composed of large facets: lip black, shining, ferruginous at the tip, with short tawny hairs at the tip; palpi black and clothed with black hairs: feelers black; first and second joints beset with a few short black hairs; second joint slightly club-shaped, as long as the first; third joint broader, spindle-shaped, longer than the first and the second joints; fourth and fifth joints rudimentary: a row of hairs along the sides of the fore chest: chest thinly clothed with short black hairs, beset on each side and behind with black bristles, adorned with four white stripes, of which the middle pair are straight and narrow, the side pair are broader and follow the curve of the chest: breast clothed with white silky hairs: abdomen cylindrical, very slightly tapering from the base towards the tip, where it again widens, narrower than the chest and less than twice its length, clothed with white silky hairs, which disappear towards the fore border of each segment; first and second segments short; third and following segments long, but successively decreasing in length to the tip, which is red and shining: legs black, clothed with short black hairs, and beset with some black bristles; tips of feet furnished with some long hairs; claws black; foot-cushions tawny; fore shanks and middle shanks tawny beneath; fore shanks unarmed:

wings blackish brown ; wing-ribs and veins black ; poisers tawny. Length of the body 7 lines ; of the wings 13 lines.

a. East Indies. From Archdeacon Clerk's collection.

**DASYPOGON** Volcatus, n. s., fem. *Flavo-fusca, metathorace et pectore flavis, abdomine rufo apice nigro, antennis fulvis, pedibus rufis, tibiis posticis femoribusque apice nigris, femoribus posticis piceo cinctis basique flavo vittatis, alis flavo-fuscis illis clavatis.*

Head broader than the chest, black on the crown and behind, thickly clothed with shining pale yellow down between the mouth and the feelers ; clypeus armed with two long pale yellow bristles ; hypostoma black, beset with black bristles ; under-side dark tawny and rather hairy : eyes piceous, with a bronze tint, divided into two parts by the different sizes of the facets ; the larger facets in front, the smaller on each side occupying the greater part of the surface and half encircling the rest : mouth black, a little longer than the head, beset with a few black hairs, and having a tuft of short tawny hairs at the tip : feelers tawny ; first and second joints of nearly equal length, beset with a few black hairs and tawny bristles ; third joint spindle-shaped, with a few short black hairs, as long as the first and the second joints, but rather broader : fore chest tawny : chest thickly covered with close yellowish brown down, tawny on each side : hind chest pale yellow : breast dull yellow : abdomen red, shining, nearly cylindrical and linear, but rather more slender at the base and at the tip, rather narrower than the chest and very nearly thrice its length ; fifth and sixth segments partly, and the following segments wholly, black : legs red, beset with short black hairs and red bristles ; feet clothed beneath with bright yellow down ; tips of the thighs and of the shanks of the hind legs black ; a narrow pale yellow band at the base of each hind thigh, succeeded by a broad but not well-defined piceous band : hind shanks somewhat club-shaped at the tips : hind feet not thicker than the others : wings yellowish brown, darkest for two-thirds of the length along the fore border, which is straight ; wing-ribs and veins ferruginous, the latter piceous towards the tips ; poisers yellow, with ferruginous knobs. Length of the body  $7\frac{1}{2}$  lines ; of the wings 12 lines.

a. East Indies. From Archdeacon Clerk's collection.

**DASYPOGON** Garamas, n. s. *Ferrugineus, thorace vittis duabus obscurioribus, pectore pedibusque fulvis, alis fulvis marginibus anticis subconvexis.*

Body ferruginous : head a little broader than the chest, adorned between the eyes with a thick coating of shining yellow down, beset with black bristles on the tubercle, where the eyelets are seated, and

with pale yellow bristles in front,\* and with more pale yellow hairs beneath : eyes piceous, divided into two regions by the difference in size of the facets ; the first part, composed of large facets, is flat, and occupies the crown ; the second part, composed of small facets, is much larger than the first, which it half encircles : mouth tawny, piceous at the tip, a little longer than the head : feelers tawny ; first and second joints beset with black bristles ; second joint a little longer than the first ; third joint piceous, spindle-shaped, tawny at the base, a little longer than the first and the second joints ; fourth joint piceous, conical, very small : chest with two indistinct dark stripes and having four rows of black bristles, two of them on the stripes, and two on each side, where the chest is paler : breast tawny : abdomen cylindrical, shining, rather darker towards the base, and slightly decreasing in breadth from thence to the tip : legs tawny, beset with hairs and bristles of the same colour : wings tawny, especially along the borders of the veins ; fore borders very slightly convex ; wing-ribs and veins ferruginous ; poisers tawny. Length of the body 6 lines ; of the wings 10 lines.

a. ——— ?

**DASYPOGON** Sergius, n. s. *Ferrugineus, thorace nigro bivittato, abdominis fasciis duabus mediis nigris, antennis ferrugineis, pedibus fulvis, alis limpidis ad costam subfulvis.*

Body ferruginous, thinly clothed above with tawny hairs : head thickly clothed behind and beneath with yellow hairs ; crown piceous ; front covered with close shining tawny down ; clypeus armed with eight long pale yellow bristles : eyes black, the front part flat and composed of larger facets, but the difference in point of size is not so conspicuous as in many other species : lip short, stout, piceous, tawny at the base, ferruginous and covered with a cluster of yellow hairs at the tip : feelers ferruginous ; first and second joints beset with tawny hairs ; second joint much shorter than the first ; third joint nearly linear, longer than the first and the second joints ; fourth joint small, shorter than the second ; fifth joint extremely small : fore chest short, its disk mostly black : two broad black stripes on the chest : breast and sides of the chest partly covered with shining yellow down, the latter beset with pale yellow bristles : abdomen nearly cylindrical, thinly clothed with very short yellow hairs, much narrower than the chest and more than twice its length, its breadth decreasing from the base to the fourth segment, and thence slightly increasing to the tip ; first segment extremely short ; second segment piceous, short, broad, convex, beset on each side with long yellow hairs ; third segment long, with two broad black stripes along its whole length, having a cross suture and a cross row of punctures

near its base, where it is furrowed with very little cross lines,—its sides are covered with yellow hairs of moderate length; the following segments successively decreasing in length; fourth segment with two black stripes, which cease before its hind border; tip clothed with rather long ferruginous hairs; under-side tawny, shining, not hairy: legs tawny, thinly clothed with yellow hairs; hips mostly piceous; shanks and feet armed with yellow spines; claws black, tawny towards the base; foot-cushions pale tawny; fore legs armed with a long curved ferruginous tooth at the tip of the shank, and with a few corresponding little black tubercles at the base of the foot; hind legs much longer than the rest: wings colourless, with a slight tawny tinge on the fore part; wing-ribs and veins black; poisers tawny. Length of the body 7 lines; of the wings 12 lines.

a. New Holland. Presented by the Haslar Hospital.

*DASYPOGON Hypsaon*, n. s., fem. *Fulvus, capite cano, abdomine ferrugineo apice nigro, antennis fulvis piceo variis, pedibus ferrugineis, tarsis piceis, alis fuscis.*

Body tawny: head hoary, a little broader than the chest, almost hairless; crown piceous; clypens armed with two long pale yellow bristles: eyes dark bronze; fore part flat, its facets larger than those of the other part: lip and palpi black, the latter thickly clothed with black hairs: feelers tawny; first joint linear; second joint subclavate, clothed with a few short black hairs, a little shorter than the first; third joint spindle-shaped, piceous in the middle part, longer than the first and the second joints: chest hairless, beset with one or two pale yellow bristles on each side; breast paler: abdomen ferruginous, smooth, shining, almost hairless, narrower than the chest and full twice its length, increasing in breadth from the base till near the tip; first segment very short; second segment with a piceous disk; third and following segments long; fifth and following segments mostly black: legs ferruginous, long and slender, clothed with short ferruginous hairs; shanks with one or two tawny bristles towards the tips; feet piceous and beset with tawny spines; claws black; foot-cushions tawny: wings dark brown; wing-ribs ferruginous; veins black; poisers tawny. Length of the body 6 lines; of the wings 10 lines.

a. China. Presented by G. T. Lay, Esq.

**DASYPOGON Cerco, n.s., fem.** *Fulvus, thorace ferrugineo, disco flavo-fusco, abdomine ferrugineo basi piceo apice nigro, antennis fulvis apice ferrugineis, pedibus fulvis, alis fuscis.*

Head tawny: chest clothed with pale golden down above and with whitish down beneath, piceous on the crown, beset with a few short black hairs along the borders of the eyes; clypeus armed with a few tawny slender hairs and with two long tawny bristles: eyes piceous, bronze here and there; fore part flat, bright bronze, and also distinguished by its larger facets; first and second joints of the feelers pale tawny, of nearly equal length, covered with a few short tawny hairs; second joint having also a long tawny bristle; third joint spindle-shaped, ferruginous, tawny at the base, as long as the first and the second joints: lip black, shining, clothed at the tip with short tawny hairs: palpi black, beset with black bristles: hypostoma tawny: chest pale ferruginous, yellowish brown and clothed with tawny down on the disk, beset with two or three tawny bristles on each side: breast tawny and clothed with pale tawny down: abdomen ferruginous, hardly narrower than the chest, but more than twice its length, narrow and linear towards the base, broader and spindle-shaped from thence to the tip, thinly clothed with very short black hairs; first and second segments short, piceous; third and following segments long, but successively decreasing in length; third segment with a cross furrow near the fore border; fourth segment widening to the hind border; fifth and following segments black, with ferruginous hind borders: legs tawny, slender, thinly clothed with very short black hairs; knees and tips of shanks armed with some pale tawny spines; tips of feet piceous; claws black, tawny at the base; foot-cushions pale tawny: wings brown, rather paler towards the tips and along the hind borders; wing-ribs tawny; veins piceous, black towards the tips; poisers tawny. Length of the body 5 lines; of the wings 8 lines.

a. Hong-Kong, China. Presented by J. C. Bowring, Esq.

**DASYPOGON Acratus, n. s. mas.** *Piceus, abdomine nigro, basi ferrugineo, antennis piceis, pedibus ferrugineis, tarsis piceis, alis fuscis.*

Head piceous, beset with a few black hairs and bristles, which are mostly beneath, having on the front a protuberance crowned with two tubercles, from whence proceed two long black bristles: eyes reddish bronze; fore part flat, composed of large facets: mouth black: feelers piceous, not longer than the head; first and second joints beset with stout black hairs; second joint a little longer than the first; third joint oval, compressed, furnished with a few short black hairs, rather longer than the first and the second joints, and full twice their breadth: chest and breast piceous,



thinly clothed with short black hairs; breast a little paler than the chest: abdomen black, clothed with short black hairs, rather more slender towards the base, narrower than the chest and very nearly thrice its length; segments from the first to the fourth ferruginous: legs ferruginous, covered with short black hairs; shanks beset with a few bristles; hips and feet piceous; hind legs slender: wings dark brown; fore borders straight; wing-ribs and veins piceous; poisers tawny. Length of the body 5—6 lines; of the wings 7—10 lines.

a. ——— ?

### Group XIII.

*DASYPOGON* Maricq, n. s., m. s. *Fulvus, thoracis vittis tribus nigris, humeris ferrugineis, pectore cano, antennis pedibusque fulvis, alis limpidis.*

Head tawny, covered with white down, nearly as broad as the chest, clothed behind and beneath with white hairs; clypeus and front very thickly covered with long white bristles: lip black, shining; tongue ferruginous; palpi black, hairy; feelers tawny, thinly clothed with short white hairs; second joint cup-shaped, much shorter than the first: eyes dark bronze; fore part slightly convex, its facets but little larger than those of the rest of the eye: chest tawny, with a broad black stripe on the back, and a shorter and more indistinct stripe on each side, clothed with very short black hairs, and beset on each side and behind with yellowish white bristles; shoulders ferruginous: breast hoary and clothed with a few white hairs: abdomen tawny, flat, tapering from the base to the tip, narrower than the chest and rather less than twice its length, clothed with short white hairs and beset with one or two white spines on the sides of the hind borders of each segment; hind borders of the segments paler; tip ferruginous; segments from the third successively decreasing in length: legs tawny, clothed with short white hairs; hips hoary and beset with white bristles, of which there are also a few on the thighs, but more on the shanks and most on the feet; claws black, tawny at the base; foot-cushions pale tawny: wings colourless; wing-ribs and veins ferruginous; poisers yellow. Length of the body 7 lines; of the wings 10 lines.

a. ——— ? Presented by Captain Lord Byron.

## Group XIV.

**DASYPOGON Clælius**, n. s., mas. *Nigro-fuscus, pectore thoracisque lateribus fulvo-cinereis, abdomine purpureo-cupreo, antennis ferrugineis apice piceis, pedibus ferrugineis, alis limpidis.*

Body dark brown: head nearly as broad as the chest, clothed with long brown hairs; clypeus and sides of the front white, the former very thickly beset with black hairs: eyes dark bronze; fore part flat, very distinct, composed of large facets, and darker than the other part: lip black, shining, clothed at the tip with short tawny hairs; palpi black and beset with black hairs: feelers ferruginous, piceous at the tips; first and second joints of equal length, clothed with black hairs; second joint subclavate; third joint spindle-shaped, much longer than the first and the second: chest thickly clothed with long brown hairs; breast and sides of the chest gray with a tawny tinge, and clothed with short brown hairs: abdomen purplish bronze, smooth, shining, nearly cylindrical, twice the length of the chest, thickly clothed on each side with brown hairs and on the back with shorter hairs; third and following segments long, but successively decreasing in length to the ninth: legs long, slender, ferruginous, thickly clothed with black hairs, which are very short on the shanks and on the feet; hips, trochanters, and tips of feet piceous; shanks and feet beset with black bristles; claws black, ferruginous at the base; foot-cushions tawny: wings quite colourless; wing-ribs, veins, and posers tawny. Length of the body 7 lines; of the wings 12 lines.

a. Cape. Presented by the Entomological Club.

b. Cape.

**DASYPOGON Tapulus**, n. s., fem. *Cano-fulvus, pectore cano, abdominis apice ferrugineo, antennis fulvis apice ferrugineis, pedibus fulvis, tibiis apice tarsisque piceis, alis limpidis, venis fulvo sublimbatis.*

Head brown, covered with dull yellowish white down, clothed behind the eyes with a few tawny hairs; clypeus armed with four long yellowish white bristles: eyes bronze; fore part nearly flat; its facets rather larger than those of the other part: lip black, shining, ferruginous at the base, clothed with short tawny hairs at the tip; palpi piceous, clothed with tawny hairs: hypostoma tawny: first and second joints of the feelers tawny, of nearly equal length, beset with some short stout black hairs; second joint slightly cup-shaped, armed with a few black bristles; third joint broader, spindle-shaped, ferruginous, a little longer than the first and the second: chest pale

tawny, with a hoary tinge, thinly clothed with very short black hairs, and beset on each side with a few tawny bristles; brown on the disk, with the exception of two stripes, which are indistinct towards the fore border: breast hoary: abdomen linear at the base, broader, and spindle-shaped towards the tip, nearly as broad as the chest, and more than twice its length, covered with a dull tawny bloom, but black and shining when this is effaced; first and second segments short; third segment long, with a cross furrow near the fore border; fourth and following segments successively decreasing in length to the tip, which is ferruginous, and armed with a circlet of black bristles: legs tawny, thinly clothed with very short black hairs, and beset with some tawny spines; hips hoary; tips of shanks piceous; feet piceous, tawny at the base; claws black, tawny at the base; foot-cushions pale tawny; fore shanks not armed: wings colourless, with a tawny tinge along the borders of the veins; wing-ribs dark ferruginous; veins piceous; poisers tawny. Length of the body 6 lines; of the wings 9 lines.

*a.* Cape. Presented by the Entomological Club.

#### Group XV.

*DASYPOGON* Decula, n. s. *Fulvus, abdomine rufo-fusco basi ferrugineo, antennis piccis, pedibus flavis, alis cinereis.*

Head tawny, full as broad as the chest, rather thickly clothed behind and beneath with pale yellow hairs, and with a few black hairs on the piceous tubercle of the eyelets; front and clypeus adorned with golden hairs, the latter has likewise six very long black bristles: eyes bronze-colour; the fore part flat, and composed of large facets, which, though they decrease in size as they diverge, are easily distinguished from the small facets of the outer part: lip black, longer than the head, clothed at the tip with tawny hairs; feelers piceous; first and second joints beset with tawny hairs; second joint much shorter than the first; third joint nearly linear, conical at the tip, much longer than the first and the second: chest and breast tawny, clothed with yellow hairs; disk of the chest pale brown; sides beset with black bristles: abdomen linear, flat, reddish brown, a little narrower and much longer than the chest, but not twice its length, clothed with short yellow hairs, ferruginous for near one-third of its length from the base: legs yellow, clothed with yellow hairs; hips, knees, and tips of the feet ferruginous; claws black; foot-cushions tawny; fore legs unarmed: wings gray; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body 6 lines; of the wings 13 lines.

*a.* Sierra Leone. Presented by the Rev. D. F. Morgan.

**DASYPOGON COON, n. s.** *Fulvus, capite thoracisque disco fuscis, pedibus fulvis, alis limpidis.*

Distinguished from the other species by the large facets of the eyes, which are cupreous; their fronts are slightly convex, and the boundary between the two parts is not clearly defined: head covered above with brown down; clypeus armed with four long black bristles: lip short, ferruginous, its tip covered with short yellow hairs: chest and breast tawny: chest clothed with some yellow hairs, and beset on each side with yellow bristles; its disk brown: legs tawny, beset with tawny bristles and hairs: wings colourless: wing-ribs, veins, and poisers tawny. Length of the body 5 lines; of the wings 10 lines.

*a.* ——— ?

### Group XVI.

**DASYPOGON BARRUS, n. s., fem.** *Cinereus, pilis albis vestitus, pectore cano, abdominis fasciis canis, antennis nigris, pedibus canis, alis limpidis.*

Body gray: head narrower than the chest, clothed thinly above and very thickly behind and beneath with white hairs; clypeus thickly beset with long white hairs: eyes black; fore part slightly convex, with facets very little larger than those elsewhere on the eye: lip black, shining: feelers black; first and second joints hairy; second joint shorter than the first; third joint spindle-shaped, very much longer than the first and the second: chest thinly clothed with short white hairs, and beset on each side with a few white bristles: breast hoary, clothed with longer white hairs: abdomen as broad as the chest and much longer, but not twice its length, slightly increasing in breadth from the base to one-third of the length, and tapering thence to the tip, rather flat, clothed with white hairs; hind borders of the segments hoary; first segment very short; second segment moderately long; third segment long; fourth and following segments successively decreasing in length; eighth segment very short; ninth segment a little longer: legs hoary, thickly clothed with white hairs, and beset with a few short white spines; fore shanks not armed; claws black; foot-cushions dark tawny; wings colourless; wing-ribs piceous; veins black, piceous at the base; poisers tawny. Length of the body 5 lines; of the wings 9 lines.

*a.* ——— ? From Mr. Children's collection.

## Group XVII.

*DASYPOGON viduus*, n. s., mas. *Niger, cinereo pubescens, thoracis vittis duabus cinereis, antennis pedibusque nigris, alis subcinereis apice obscurioribus.*

Body black ; head narrower than the chest, clothed with gray down, beset behind the eyes with a row of black bristles, thinly clothed beneath with gray hairs ; crown piceous, beset on each side with black hairs ; clypeus armed with twelve long black spines : eyes black ; fore part flat ; its facets a little larger than those of the convex part : lip piceous, clothed at the tip with tawny hairs ; hypostoma and palpi black, clothed with black hairs : feelers black ; first and second joints clothed with long black hairs ; second joint a little shorter than the first ; third joint spindle-shaped, nearly as long as the first and the second, clothed above with short black hairs ; fourth joint short ; fifth joint extremely short : chest covered with gray down, beset on each side and behind with long black bristles ; disk black, excepting two gray stripes, which are widened in front and behind, and are beset with a few short black hairs : abdomen slightly shining, with an indistinct gray stripe on each side, tapering from the base to the tip, narrower than the chest and more than twice its length, thinly clothed with very short black hairs, and having also a few longer gray hairs at the base and on the under-side ; the black hairs are more numerous at the tip ; first and second segments short ; third and following segments long, but successively decreasing in length ; third segment with a cross row of punctures on the furrow near the base : legs black, thinly clothed with short gray hairs ; shanks and feet beset with black spines ; feet long, clothed beneath with dark tawny down ; claws black ; foot-cushions dark tawny ; tips of fore shanks armed with a curved black tooth, corresponding with a large black tubercle at the base of the fore feet : wings very slightly gray, dark gray at the tips ; wing-ribs piceous ; veins black, piceous at the base ; poisers yellow. Length of the body 6—7 lines ; of the wings 10—12 lines.

*a.* Colenso, New Zealand. Presented by Dr. J. Hooker.

*DASYPOGON sexfasciatus* ? *Say, Journ. Acad. Phil.* iii. 50, 1. *Wied. Auss. Zweif.* i. 408, 68.

*a.* Nova Scotia. From Lieut. Redman's collection.

*DASYPOGON argenteus* ? *Say, Journ. Acad. Phil.* iii. 51, 4. *Wied. Auss. Zweif.* i. 409, 69.

*a.* Nova Scotia. From Lieut. Redman's collection.

**DASYPOGON guttula?** *Wied. Dipt. Exot. i. 228, 27. Auss. Zweif. i. 411, 74. Mas. et fem.*—*Niger, capite fulvo-cinereo, thorace cinereo-nigro, pilis nonnullis longis nigris vestito, abdomine nigro-æneo nitente nigroque pubescente, subtus obscuro pilisque canis vestito, antennis pedibusque nigris, alis limpidis.*

Body black: head gray, with a tawny tinge, covered with rather long hoary hairs, as broad as the chest: eyelets seated on a tubercle: eyes dark red: mouth black, very short: feelers black; second joint about half the length of the first: chest and breast having a gray bloom, and slightly covered with long black hairs: abdomen much narrower and longer than the chest, but not twice its length, cylindrical, shining, and with a metallic tint above, dull beneath, covered with black down, and clothed beneath with hoary hairs, which are longest, and most frequent at the base: legs rather short and stout, black, shining, clothed with black down, and beset with hoary hairs and black bristles; hind shanks club-shaped; hind feet wide, especially the first joint, which is as long as the three following joints, and much broader: wings colourless; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. New York. Presented by E. Doubleday, Esq.

b. Ohio. Presented by the Entomological Club.

c. ———?

**DASYPOGON Falto, n. s., mas. et fem.** *Niger, capite pectoreque cano pilosis, thorace fulvo quinquevittato, abdominis segmentis utrinque cano fasciculatis, antennis pedibusque nigris, tibiis tarsisque basi flavis, alis limpidis apice subcinereis.*

Body black: head a little broader than the chest, covered with a brown bloom, thickly clothed above and behind with black hairs, and beneath with white hairs; front covered with silvery down, which appears dark tawny in some aspects, and adorned with thick tufts of golden hairs: eyes bronze; fore part flat, not very distinct from the other part, but with larger facets: feelers black; first and second joints clothed with long black hairs; first joint linear; second joint club-shaped, shorter than the first; third joint long, nearly linear, but conical at the base, and slightly compressed before one-third of its length, longer than the first and the second joints; fourth, fifth, and sixth joints very short, like a spine at the tip of the third: chest black, shining, clothed with long black hairs, and adorned with dark tawny down; this down is mostly disposed in five stripes, which proceed from the fore border to the disk, the outer pair are oblique, the inner pair are at first straight, then form a right

angle, and proceed in a course parallel to the side of the chest; middle stripe slender and linear: breast covered with a hoary bloom, and clothed with long white hairs: abdomen convex, shining, decreasing in breadth from the base to the tip, narrower than the chest and about twice its length, clothed on each side of the tip with black hairs, and with longer white hairs towards the base; hind border of every segment adorned on each side with a large patch of hoary down; first segment very short; second segment broad, short, more convex than the rest; third segment long, crossed by a furrow near its fore border; the following segments successively decreasing in length: legs black, shining; hips and thighs clothed with long white hairs, and the latter having shorter black hairs towards their tips; shanks and feet clothed with shorter black hairs and with black bristles: shanks for more than one-third of their length from the base, and each foot-joint at its base bright tawny; claws tawny, black towards the tips; foot-cushions tawny; fore legs unarmed; hind shanks slightly club-shaped; hind feet rather broad: wings colourless, slightly gray towards the tips; wing-ribs piceous; veins black, piceous towards the base, where they are bright tawny; poisers tawny, with yellow knobs. *Female*.—Like the male, but larger: sixth joint of the feelers more slender and like a short bristle: tip of the abdomen armed with short black spines: the tawny colour does not extend beyond the base of the shanks, and the foot-joints are nearly all black. Length of the body 5—6 lines; of the wings 9—10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*DASYPOGON Macerinus*, n. s. *Niger, lateribus abdominis apice ventree ferrugineis, thorace cano trivittato, antennis ferrugineis apice nigris, pedibus nigris, tarsorum articulis basi tibiisque ferrugineis, alis limpidis, basi costa venarumque marginibus apice fuscis.*

Body black, dull: head full as broad as the chest, clothed with long white hairs: tubercle of the eyelets beset with some black bristles: front dark red, covered with hoary down: eyes cupreous; front part flat, composed of very large facets, and quite distinct from the convex part of the little facets: lip black, short, ferruginous, and clothed with short black hairs at the tip: first and second joints of the feelers ferruginous, beset with black bristles; first joint linear; second joint club-shaped, a little shorter than the first; third joint black, slightly tapering from the base to the tip, as long as the first and the second, but much more slender: chest black, very dark ferruginous on each side, thinly clothed with hoary hairs, adorned with three slender indistinct hoary stripes, beset on each side with black

bristles: breast covered with hoary bloom, and clothed with long white hairs: abdomen slightly shining, clothed with short tawny hairs, less than twice the length of the chest, which it nearly equals in breadth at the base, but it diminishes thence to the tip; sides ferruginous; segments from the third to the last successively decreasing in length; sides of the segments, from the first to the fifth, clothed with long white hairs, and each of them adorned with a patch of hoary down on the hind border; sixth, seventh, and eighth segments shining, thickly crossed with little furrows; under-side and lip ferruginous, the latter armed with short black spines: legs black, clothed with short white hairs; hips clothed with long white hairs; shanks ferruginous, armed with black and pale yellow spines; feet more thickly beset with black bristles and with black hairs; fore joints ferruginous at the base; claws black; foot-cushions tawny: wings colourless, brown at the base, on the fore borders, and along the sides of the veins towards the tips; wing-ribs and veins black; poisers piceous, tips of the stalks and of the knobs tawny. Length of the body 5 lines; of the wings 9 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*DASYPOGON* Lutatus, n. s. *Niger, capite pectoreque canis, thorace fusco lateribus argenteis, abdominis fasciis interruptis canis, antennis pedibusque nigris, alis subcinereis.*

Body black, slightly shining: head covered with hoary bloom, clothed with long white hairs, and beset with a few black hairs on the tubercle of the eyelets, and behind the rims of the eyes; some little furrows along the crown; clypeus beset with black bristles: eyes bronze, like those of *D. Macerinus*: lip black, clothed at the tip with tawny hairs: feelers black; first and second joints clothed with a few long black hairs; first joint linear; second joint club-shaped, shorter than the first; third joint irregularly spindle-shaped, longer than the first and the second; fourth and fifth joints like a spine, which is not near half the length of the third; sixth joint like a short bristle: chest covered with a deep brown bloom, and adorned with silvery down on each side, which is beset with a few black bristles: breast covered with silvery down: abdomen a little narrower than the chest and less than twice its length, almost linear till near the tip, which is conical; hind border of each segment adorned with a hoary band, which is interrupted in the middle; segments clothed on each side towards the base with white hairs, decreasing in length from the third to the last, thickly crossed with little furrows; tip armed with short black spines: legs black; hips hoary, and clothed with long white hairs; thighs and shanks clothed with tawny hairs, and the latter with black bristles; feet beset with black



hairs and bristles; claws black; foot-cushions tawny: wings slightly tinged with gray; wing-ribs and veins piceous, the latter black towards the tips; poisers pale tawny. Length of the body  $3\frac{1}{2}$ —4 lines; of the wings 5—6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

### Group XVIII.

**DASYPOGON** Lævinus, n. s., mas. *Cinereus, abdominis apice rufo, antennis nigris, pedibus rufis, genubus tarsisque apice piceis, alis fulvis.*

Head gray, a little narrower than the chest, clothed thinly above and thickly behind and beneath with yellowish white hairs; clypeus beset with yellowish white bristles: eyes black; fore part slightly convex, its facets very little larger than those of the other part: lip black, shining, clothed at the tip with short tawny hairs: feelers black; second joint much shorter than the first: chest gray, covered with yellow down, and clothed with pale tawny hairs: abdomen gray, linear, red at the tip, clothed with pale tawny hairs, narrower and longer than the chest, but much less than twice its length; first and second segments very short; third and following segments long, but successively decreasing in length to the tip: legs red, clothed with pale yellow hairs; hips gray; knees and tips of feet piceous; claws black; foot-cushions dull tawny; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers yellow. Length of the body 4 lines; of the wings 7 lines.

a. South Africa.

**DASYPOGON** Discus, *White, Zool. Voy. Erebus and Terror.* Fem.—*Niger, fulvo pubescens, abdomine rufo disco nigro, antennis tarsisque nigris, pedibus rufis, alis limpidis, apice cinereis.*

Body black: head covered with tawny down, a little narrower than the chest, covered on each side of the crown with a few black hairs, beset behind the eyes with a row of black bristles, clothed beneath with long pale yellow hairs; front and clypeus adorned with bright pale golden down; clypeus armed with ten long white bristles: eyes black; fore part nearly flat, distinguished also from the other part by the larger size of its facets: lip black, clothed at the tip with short tawny hairs; palpi and hypostoma black, clothed with long pale yellow hairs: feelers black; first and second joints clothed with black hairs; second joint slightly club-shaped, beset with one or two black bristles, a little shorter than the first; third joint linear, longer than the first and the second; fourth joint very

short; fifth joint obsolete: chest covered with tawny down, which forms two stripes in the middle, thinly clothed with short black hairs, and beset on each side with some black bristles: breast covered with pale tawny down, having a hoary tinge: abdomen above black, and thinly clothed with very short pale tawny hairs, red at the tip and along the sides, tawny and shining beneath, almost linear, nearly as broad as the chest and more than twice its length; first and second segments short; third segment long, with a cross row of punctures along the furrow near its base; the following segments successively decreasing in length: legs red, almost hairless, beset with black spines, which are much more numerous on the feet than on the shanks or on the thighs; thighs paler at the base; feet black, red at the base; claws black; foot-cushions pale brown; a black stripe on each fore thigh; tips of fore shanks armed with a black curved tooth, corresponding with some black tubercles at the base of the fore feet: wings colourless, gray at the tips; wing-ribs ferruginous; veins piceous, black towards the tips; poisers large, yellow. Length of the body 6 lines; of the wings 11 lines.

a. New Zealand. From Mr. Earl's collection.

### Group XIX.

*DASYPOGON* Venno, n. s. *Niger, thorace rufo nigro univittato et bimaculato, abdomine purpureo, antennis pedibusque nigris, alis nigris apice limpidis.*

Body black: head a little broader than the chest, with a stripe of white down on each side of the front between the feelers and the clypeus; the latter is armed with six long black bristles: lip black, short: eyes bronze-black, flat in the front, where the facets are larger and distinct from those of the convex part: feelers black, a little longer than the head: first and second joints beset with black hairs; second joint a little shorter than the first; third joint slightly club-shaped, very much longer than the first and the second, but not twice their length: chest and breast bright red; a black stripe on the back, and a black spot at the base of each wing; a space about the hips is also black: abdomen purple, shining, linear for a short space from its base, elliptical thence to the tip, fringed with white hairs on each side, a little narrower than the chest and twice its length, hoary on each side at the base: legs black, slender, clothed with black hairs and bristles; claws black; foot-cushions piceous: wings black for two-thirds of the length from the base, colourless thence to the tips; wing-ribs and veins black; poisers

piceous, their knobs pale tawny and very large. Length of the body  $2\frac{1}{2}$  lines; of the wings 7 lines.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

### Group XX.

**DASYPOGON** Aphidnus, n. s., mas. *Fulvus, capite albo, pectore et metathorace cinereis, abdomine ferrugineo basi cinereo, antennis pedibusque fulvis, alis limpidis.*

Body tawny: head as broad as the chest, covered with whitish down, clothed thinly above and thickly beneath with pale yellow hairs, beset with yellow bristles along the upper hind borders of the eyes; clypeus armed with a tuft of pale yellow bristles: eyes black; fore part nearly flat, with facets very little larger than those elsewhere on the eye: lip and palpi black, the latter clothed with tawny hairs: first and second joints of the feelers tawny, clothed with tawny hairs; second joint cup-shaped, shorter than the first: chest and breast very thinly clothed with short yellow hairs; scutcheon and hind chest gray: abdomen ferruginous, slightly tapering from the base to the tip, much longer than the chest, and almost equal to it in breadth at the base, clothed with yellow hairs, which are most thick on each side towards the base and at the tip; first and second segments gray, short; third and following segments longer, but successively darker along the fore borders, decreasing in length to the seventh, which is very short, its appendages are large, and piceous at the tip: legs tawny, clothed with white hairs, and beset with some short white bristles; hips gray; feet piceous, tawny beneath; claws black; foot-cushions whitish: wings colourless; fourth areolet on the hind border from the base of the wing very open; wing-ribs ferruginous; veins black, ferruginous at the base; poisers pale yellow. Length of the body 3 lines; of the wings 5 lines.

a. ——— ?

### Group XXI.

**DASYPOGON** Luscinius, n. s., fem. *Niger, brevis, latus, abdomine rufo basi nigro, antennis pedibusque nigris, tibiis et tarsis posticis genibusque ferrugineis, alis limpidis.*

Body black, short, broad, thick: head narrower than the chest, clothed above, behind, and more thickly beneath, with white hairs; clypeus thickly beset with white bristles: eyes dark red; fore part flat, almost black, quite distinct from the other part and composed

of much larger facets: lip black, ferruginous at the tip: feelers black: chest and breast thinly clothed with white hairs: abdomen red, obconical, as broad as the chest and a little longer, black at the base and on the sutures of the segments, thinly clothed with white hairs on each side; segments from the first to the sixth successively increasing in length; seventh and following segments shorter: legs black, clothed with white hairs; shanks beset with short white spines; knees, hind shanks and hind feet ferruginous; claws black; foot-cushions pale tawny: wings colourless; rudiments of a vein near the base of the fork which divides the submarginal areolets; the next areolet beneath closed before the border of the wing; the two following areolets only half divided from each other, the tip of the vein being wanting; the succeeding areolet closed by a cross-vein near the hind border; wing-ribs piceous; veins black, piceous at the base; poisers yellow. Length of the body 3 lines; of the wings 5 lines.

a. South Africa. Presented by Dr. A. Smith.

## Group XXII.

*DASYPOGON* Agalla, n. s. *Fuscus, capite lato, thoracis lateribus fulvis, pectore cano, abdomine plano subtus pallido, antennis nigris, pedibus piccis, alis fusco-cinereis.*

Body deep rich brown: head much broader than the chest, covered with hoary down, and clothed behind and beneath with white hairs; clypeus beset with tawny bristles: eyes cupreous: fore part very slightly convex, composed of very large facets, which are quite distinct from the small facets, especially on the lower part of the front: lip black, short, tawny at the base and clothed with tawny hairs; palpi black, their tips beset with dark tawny bristles: feelers black, as long as the head; first and second joints very short, beset with a few black hairs; third joint spindle-shaped, much more than twice the length of the first and the second joints; fourth joint small, not one-fourth of the length of the third; fifth joint very small: sides and hind border of the chest and of the scutcheon tawny: breast hoary, shining: abdomen flat, nearly linear, much narrower than the chest, and rather more than twice its length; under-side pale, shining: legs piceous, clothed with tawny hairs; hips hoary; feet dark piceous, beset with black bristles; claws black; foot-cushions tawny; hind shanks club-shaped; hind feet broad at the base: wings brownish gray, especially at the base and along the fore borders; wing-ribs and veins piceous; poisers tawny, with a broad piceous band at the base of the knob. Length of the body 4 lines; of the wings 8 lines.

a. Venezuela. From Mr. Dyson's collection.

**DASYPOGON** *Æta*, n. s. *Fulvus, capite subtilus pectoreque canis pilisque albis vestitis, vertice thoracisque vittis tribus fuscis, abdominis disco fusco, antennis nigris, pedibus fulvis, tibiis tarsisque apice nigris, alis fuscis.*

Head dark brown on the crown, hoary and clothed with white hairs behind, tawny and having a few tawny hairs on the front, very short, much broader than the chest; its fore part chiefly occupied by the eyes, which are large, prominent, and dark red with a bronze tinge; they may be divided into two regions; in the first or inner part the facets decrease regularly in size from the border of the crown outwards: in the second, or outer part, they are all extremely small, and of equal size: lip black, covered at the tip with short tawny hairs; palpi piceous, beset with long yellow hairs: feelers black; second joint much shorter than the first; third joint slightly club-shaped, longer than the first and the second; fourth joint conical, short; fifth joint like a bristle, much shorter than the fourth: chest tawny, downy, having very few hairs, adorned with three very broad rich brown stripes which unite and occupy the whole breadth of the chest in front, but decrease towards the hind border, which they do not reach: breast hoary, thinly covered with white hairs: abdomen rich brown, slightly covered with short hairs, tawny on the sides and on the hind borders of the segments, and on the whole of the under-side, narrower than the chest, and about twice its length: legs tawny; hips hoary; thighs clothed with hairs of various length, and having a piceous tinge towards the tips; knees and tips of the trochanters black; shanks more thickly clothed with hairs and bristles, black towards the tips; feet clothed with thick down, and having a few long black hairs on the upper-side, tip of each joint black; fore feet nearly all black; hind shanks club-shaped; hind feet wide, especially the first joint, which is as long as the three following joints, and much broader: wings deep rich brown, somewhat paler towards the tips, convex on the fore borders; wing-ribs and veins black; poisers yellow, each with a large piceous spot on the outer-side of its club. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. John's Bluff, Florida. Presented by E. Doubleday, Esq.

b. Massachusetts: From Prof. Sheppard's collection.

**DASYPOGON** *Amastris*, n. s. *Niger, nitens, pilis albis hirtus, abdomine fulvo-piloso apice obscuro rufo, antennis nigris, pedibus rufis, tarsis piceis, tibiis posticis subarcuatis, tarsis posticis latis, alis subcinereis fuscoque subbifasciatis.*

Body black, shining: head a little broader than the chest, dull and punctured above, with a row of tawny bristles on the clypeus, clothed behind and beneath with white hairs, a little broader than the chest: there are a few long tawny hairs on the tubercle of the

eyelets: lip black; its tip clothed with short tawny hairs: feelers black, not longer than the head; first and second joints short, of equal length, clothed with short tawny hairs; third joint red, linear, piceous at the tip, full twice the length of the first and of the second; fourth joint spine-shaped, dark red, slender, black at the tip, about one-third of the length of the third: eyes red, divided into two regions; the inner part small, flat, composed of rather large facets, which however successively decrease in size as they diverge to the outer part which is convex, composed of small facets, and much larger than the inner part, which it half encircles: chest and breast finely punctured, thinly covered with short white hairs; the former having also a few long tawny hairs on its hinder part: abdomen thin, increasing in breadth from the base to the tip, full twice the length of the chest; segments from the first to the sixth very slightly convex, smooth, shining, clothed with very short tawny hairs; first and second segments very short; third and following segments to the sixth long; seventh and eighth dull, flat, large, very finely punctured, with no hairs; seventh slightly red along the hind border and on the side borders, having on each side five large punctures disposed by twos and threes in two oblique rows; in the eighth segment the red overspreads more of the surface, and it has on each side three more indistinct punctures which are arranged in a more oblique row; underside of abdomen dull, punctured; segments with a rim on each side: the last segment red on the hind border, and more slightly so on each side border: legs red, clothed with short tawny hairs; hips black; shanks beset with some longer tawny hairs; feet piceous, and armed with bristles; hind shanks slightly curved and club-shaped; hind feet rather broad: wings narrow, slightly gray; each with two large brown spots, one is on the middle of the fore border, the other at the tip of the wing, and they descend into the disk along the borders of the cross-veins; the hind border about the tip is brownish gray, with a colourless streak on each arcole; wing-ribs and veins black; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Georgia. From Mr. Abbot's collection.

*DASYPOGON PRYTANIS*, n. s. *Canus, thorace vittis tribus fuscis, antennis nigris, pedibus fulvis, femoribus basi, tibiis apice tarsisque nigris, femoribus posticis crassis dentibusque armatis, tibiis posticis subarcuatis, alis albis.*

Body stout: head hoary, with short hoary hairs on the crown, and having a few tawny bristles in front, rather thickly clothed beneath with white hairs, very short, much broader than the chest;

its fore part chiefly occupied by the eyes, which are large and prominent; in their inner region the facets decrease regularly in size from the border of the crown outwards, but the facets of the outer part are all extremely small, and of equal size: feelers and mouth black: chest, breast, and abdomen hoary, thinly clothed with white hairs: chest with three brown stripes; middle stripe broad, linear, extending from near the fore border to a little beyond the middle of the length; side stripes but little more than half the length of the middle stripe, being shortened in front where their borders are straight, but their hind borders are convex; scutcheon prominent: abdomen narrower than the chest, and less than twice its length: legs stout, tawny, clothed with black hairs and bristles; hips hoary; thighs towards the base, knees, feet, and tips of the shanks black; hind thighs thick, each armed beneath with nine black spines; hind shanks slightly curved; hind feet not wide: wings white; wing ribs and veins pale yellow, the latter tawny towards the tips of the fore borders; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. North Bengal. From Miss Campbell's collection.

### Group XXIII.

*DASYPOGON transiens*, n. s. *Niger, pilis nigris vestitus, thorace vitis tribus cinereis, abdomine pilis ferrugineis vestito, antennis pedibusque nigris, alis fuscis.*

Resembles a *Laphria*; and some of the species of *Dasypogon*, *Laphria* and *Asilus* form parallel series, like those of *Empis* and *Rhamphomyia*. Body black, thickly clothed with black hairs: head a little narrower than the chest: tubercle of the eyelets beset with a tuft of black bristles; front covered with silky brown down; clypeus thickly armed with long black bristles: eyes black; fore part flat, composed of large facets, its border quite distinct and not blending with the facets of the other part: lip short, stout, deep black, its tip clothed with short tawny hairs: feelers black; first and second joints beset with black hairs and bristles; second joint a little longer than the first; third joint nearly linear or slightly tapering from the middle to each end, clothed above with short black hairs, more than twice the length of the first and of the second joints: chest with three indistinct very dark gray stripes; middle stripe long and linear; side stripes short and oblique: abdomen nearly linear, convex, thickly clothed with ferruginous hairs, armed at the tip with short black spines, a little narrower than the chest and nearly twice its length: legs stout, black, thickly clothed with

black hairs; shanks and feet also beset with black spines; claws black; foot-cushions pale tawny; fore shanks armed at the tip beneath with a curved black tooth, corresponding to some little tubercles beneath the base of the feet: wings dark brown; wing-ribs and veins black; poisers piceous. Length of the body  $10\frac{1}{2}$  lines; of the wings 18 lines.

a. Venezuela. From Mr. Dyson's collection.

*Note.*—The four following species belong to the earlier sections of the genus, but were accidentally omitted.

DASYPOGON Spectrum, var.? *Wied. Auss. Zweif.* i. 368, 2. (See page 304, Group I.)

- a. China. Presented by J. Reeves, Esq.
- b. China. Presented by G. T. Lay, Esq.
- c. China. Presented by the Entomological Club.
- d. China. From Mr. Birch's collection.

DASYPOGON Scython, n. s., fcm. *Fuscus, capite flavo-vittato, abdomine rufo vittis nigris, pedibus rufis, alis ferrugineis.* (See page 304, Group I.)

Head much narrower than the chest, covered with white down, clothed behind and beneath with yellow hairs, beset behind the eyes with black and tawny bristles; crown reddish brown, furnished on each side with some whitish hairs and tawny bristles, adorned with four pale yellow stripes; front and clypeus covered with whitish silky down; front ridged across; clypeus armed with ferruginous bristles and with some pale yellow hairs: eyes dark bronze; fore part flat, black, its facets very much larger than those of the other part: lip black and clothed with short tawny hairs at the tip; palpi black, beset with long pale yellow hairs: first joint of the feelers black: chest brown, rather paler on the sides, thinly clothed with very short tawny hairs, beset on each side and behind with black bristles: breast brown, covered with pale yellow down: abdomen bright red, flat, tapering from the base to the tip, thinly clothed with very short tawny hairs, adorned on each side at the base with a tuft of longer tawny hairs, a little narrower than the chest and rather more than twice its length; first and second segments black, very short; third and following segments long, successively decreasing in length, black along their hind borders; sixth and following segments shining; tip armed with a circlet of short black spines: legs red, clothed with tawny hairs, armed with black spines; hips brown; fore hips thickly clothed with long tawny



hairs; claws black; foot-cushions tawny: wings ferruginous; wing-ribs piceous; veins ferruginous; poisers tawny. Length of the body 15 lines; of the wings 27 lines.

*a.* Sandwich Isles. Presented by Captain Beechey.

**DASYPOGON melanogaster**, *Wied. Dipt. Exot.* i. 215, 2. *Auss. Zweif.* i. 368, 3. (See page 304, Group I.)

*a.* Brazil. From Mr. Mornay's collection.

**DASYPOGON Fossius**, *n. s., mas. et fem.* *Flavus, thorace nigro trivittato, lateribus pectoreque fulvis, abdomine ferrugineo, antennis pedibusque fulvis, alis limpidis apicibus marginibusque posticis cinereis.* (See page 322, Group VII.)

Head yellow, as broad as the chest, piceous about the eyelets, beset behind with black bristles, clothed beneath with pale-yellow hairs; front and clypeus covered with golden down, the latter armed with long white bristles: eyes bronze; fore part flat and composed of rather large facets: lip black, clothed at the tip with short tawny hairs; palpi pale ferruginous, beset with ferruginous hairs: feelers tawny; second joint very slightly clavate, full as long as the first; third joint nearly spindle-shaped, longer than the first and the second joints: chest yellow, adorned with three broad black stripes, beset on each side and behind with a few black bristles; breast and sides of the chest tawny: abdomen of the male ferruginous, narrower than the chest and nearly thrice its length, slightly tapering from the base to one-third of its length, nearly spindle-shaped from thence to the tip, which is shining, and clothed with tawny hairs; first segment extremely short; second segment short, convex; third and following segments long, but successively decreasing in length: abdomen of the female nearly linear for two-thirds of its length, slightly tapering from thence to the tip, which is armed with a circlet of short ferruginous spines: legs tawny, thinly clothed with very short black hairs, beset with a few black bristles; feet black towards the tips; claws black; foot-cushions pale tawny; tip of each fore shank armed with a long black curved tooth, which corresponds with some black tubercles at the base of each fore foot: wings colourless, gray at the tips and along the hind borders; wing-ribs ferruginous; veins black; poisers tawny. Length of the body 9—10 lines; of the wings 16—18 lines.

*a.* ———? From Mr. Children's collection.

## CERATURGUS, Wiedemann.

CERATURGUS fasciatus, n. s., mas. *Niger, flavo varius, abdominis segmentis flavo vittatis, antennis nigris, pedibus fulvis, femoribus nigris, alis flavo-fuscis.*

Body black, linear: head as broad as the chest, clothed with shining yellow down along the hind rims of the eyes; tubercle of the eyelets beset with some tawny hairs; front and sides of the crown covered with ferruginous down; clypeus clothed with long red and brown hairs: eyes brassy red; fore part flat, composed of larger facets, and distinct from the other part: lip short, black, shining, its tip ferruginous and clothed with very short yellow hairs: feelers black, more than twice the length of the head; first and second joints thinly clothed with yellow hairs; second joint a little shorter than the first; third joint linear, much longer than the first and the second joints; fourth joint short, oblique at the tip; fifth joint linear, thickly clothed with black down, a little longer and broader than the fourth: chest and breast slightly covered with pale yellow down, which is more thick on some parts, and forms two spots on the disk, a band along the hind border of the scutcheon, and some stripes on each side: abdomen linear, convex, thinly clothed with short yellow hairs, rather narrower than the chest and less than twice its length; each segment with a broad band of yellow down on its hind border: first segment very short; second segment short; third segment long; the following segments successively decreasing in length; a tuft of long yellow hairs on each side of the tip: legs tawny, clothed with very short yellow hairs; hips and thighs black, tips of the latter ferruginous; shanks and feet beset with a few yellow spines; claws black, tawny at the base; foot-cushions yellow; hind thighs slender; hind shanks straight: wings yellowish brown for two-thirds of the length, tawny from thence to the tips and along the hind borders; wing-ribs ferruginous; veins piceous, ferruginous at the base, black at the tips; poisers tawny. Length of the body 7 lines; of the wings 13 lines.

a. New York. Presented by the Entomological Club.

CERATURGUS (?) Andocides, n. s., mas. *Niger, pilis flavis vestitus, humeris rufis, antennis nigris, pedibus rufis, femoribus nigris, alis fuscis basi pallidioribus.*

Body black, stout, dull: head hardly as broad as the chest, clothed with long pale yellow hairs, which are most thick beneath; tubercle of the eyelets beset with four tawny bristles; front clothed with long shining pale yellow hairs, as is also the clypeus, where

the hairs are still longer and more numerous: eyes dark red; fore part flat, composed of much larger facets, and distinct from the other part: lip black, shining, its tip clothed with short tawny hairs: feelers black, full twice the length of the head; first and second joints linear and of equal length; first joint clothed with yellow hairs; second joint beset with a few short yellow bristles; third joint linear, covered with a brown bloom, very slightly compressed; fourth joint short, slightly club-shaped, about one-eighth of the length of the third; fifth joint club-shaped, much broader and longer than the fourth: neck with a cross ridge: chest and breast, especially the latter, clothed with pale yellow hairs; shoulders dark red: abdomen nearly spindle-shaped, slightly convex, much narrower than the chest and less than twice its length, thinly clothed with very short yellow hairs; first segment very short; second segment short; third segment long; the following segments successively decreasing in length; under-side clothed with longer pale yellow hairs: legs red, shining, clothed with short tawny hairs; hips, trochanters and thighs black, clothed with long pale yellow hairs, as are also the fore feet and fore shanks, especially the latter, whose hairs are very long and thick; feet beset with yellow bristles; claws black, pale red at the base; foot-cushions yellow: wings dark brown, paler towards the base; wing-ribs and veins piceous: poisers pale ferruginous. Length of the body 8 lines; of the wings 14 lines.

a. ——— ?

### LAPHRIA, *Fabricius*.

#### European Species.

Div. I., *Loew*. First submarginal areolet divided by a cross-vein.

LAPHRIA maroccana, *Fabr. Syst. Antl.* 158, 7. *Latr. Gen. Crust.* iv. 299. *Wied. Zool. Mag.* i. 2, 38. *Meig. Dipt.* ii. 290, 5. *Macq. Hist. Nat. Dipt.* i. 282, 7, pl. 7, f. 3. *Loew, Linn. Ent.* ii. 540, 1. *Asilus maroccanus, Fabr. Ent. Syst.* iv. 378, 10. *Asilus &c., Geoff. Ins.* ii. 467, 2.

- a. ——— ? Presented by the Entomological Club.
- b. Albania. Presented by W. W. Saunders, Esq.
- c. Albania. Presented by E. Doubleday, Esq.
- d. Albania. From Mr. Walker's collection.
- e. France.

One specimen has a double cross-vein on the submarginal areolet of the left wing.

Div. II., Loew. *First submarginal areolet not divided ; first hind border areolet open.*

LAPHRIA aurea, Meig. *Dipt.* ii. 295, 15. Macq. *Hist. Nat. Dipt.* i. 281, 2. Loew, *Linn. Ent.* ii. 541, 2.

a. ——— ?

LAPHRIA gibbosa, Fabr. *Syst. Antl.* 156, 1. Latr. *Gen. Crust.* iv. 299. Cons. *Gén.* 443. Fall. *Dipt. Suec. Asil.* 4, 1. Wied. *Zool. Mag.* i. 2, 27. Meig. *Dipt.* ii. 287, 1. Macq. *Dipt. Nord. Asil.* 37, 1. *Hist. Nat. Dipt.* i. 280, 1. Zeller, *Isis*, 1840, 73, 1. Zett. *Ins. Lapp.* 504, 1. *Dipt. Scand.* i. 160, 1. Loew, *Linn. Ent.* ii. 543, 4. *Asilus gibbosus*, Linn. *Faun. Suec.* 1907. Gmel. *Ed. Syst. Nat.* v. 2896, 6. Fabr. *Sp. Ins.* ii. 461, 7. *Ent. Syst.* iv. 378, 8. Schæff. *Icon. t.* 8, f. 11. Schrank. *Faun. Boic.* iii. 2443. *Asilus bombylius*, Deg. *Ins.* vi. 96, 1, t. 13, f. 6.

a. ——— ? Presented by the Entomological Club.

b. ——— ?

LAPHRIA ephippium, Fabr. *Syst. Antl.* 157, 3. Latr. *Gen. Crust.* iv. 299. Fall. *Dipt. Suec. Asil.* 4, 3. Meig. *Dipt.* ii. 289, 3. Macq. *Dipt. Nord. Asil.* 39, 3. *Hist. Nat. Dipt.* i. 281, 4. Zeller, *Isis*, 1840, 74, 3. Zett. *Dipt. Scand.* i. 161, 3. Loew, *Linn. Ent.* ii. 544, 5. *Asilus ephippium*, Fabr. *Sp. Ins.* ii. 461, 6. *Ent. Syst.* iv. 377, 7. Gmel. *Ed. Syst. Nat.* v. 2896, 19. *Asilus dorsalis*, Deg. *Ins.* vi. 96, 2, t. 13, f. 9.

a. France.

b. ——— ?

c. Martigny, Switzerland. From Mr. Walker's collection.

LAPHRIA flava, Fabr. *Syst. Antl.* 156, 2. Latr. *Gen. Crust.* iv. 299, Panz. *Faun. Germ.* xxxix. 23, 24. Fall. *Dipt. Suec. Asil.* 4, 2. Meig. *Dipt.* ii. 288, 2. Macq. *Dipt. Nord. Asil.* 38, 2. *Hist. Nat. Dipt.* i. 281, 3. Zeller, *Isis*, 1840, 74, 2. Zett. *Dipt. Scand.* i. 161, 2. Loew, *Linn. Ent.* ii. 545, 6. *Asilus flavus*, Linn. *Faun. Suec.* 1911. Gmel. *Ed. Syst. Nat.* v. 2897, 8. Fabr. *Sp. Ins.* ii. 462, 12. *Ent. Syst.* iv. 380, 18. Deg. *Ins.* vi. 96, 3, t. 13, f. 10. Schæff. *Icon. t.* 51, f. 2. Herbst, *Gem. Nat.* viii. 119, t. 346, f. 3. Schrank. *Faun. Boic.* iii. 2539.

a. ——— ?

b. Switzerland. Presented by Dr. Dowler.

c. Grisons, Switzerland. From Mr. Walker's collection.

*LAPHRIA ignea*, Meig. *Dipt.* ii. 294. Macq. *Hist. Nat. Dipt.* i. 282, 6. Zeller, *Isis*, 1840, 76, 7. Zett. *Dipt. Scand.* i. 162, 5. Loew, *Linn. Ent.* ii. 547, 7. *L. gilva*, Meig. *Klass.* i. 261, 4. Fall. *Dipt. Suec. Asil.* 5, 4, var.  $\beta$ .

a. Sweden.

*LAPHRIA gilva*, Fabr. *Syst. Antl.* 159, 15. Latr. *Gen. Crust.* iv. 299. Panz. *Faun. Germ.* cvii. 18. Fall. *Dipt. Suec. Asil.* 5, 4. Meig. *Dipt.* ii. 294, 12. Macq. *Dipt. Nord.* 40, 6. *Hist. Nat. Dipt.* i. 281, 5. Zeller, *Isis*, 1840, 75, 6. Zett. *Ins. Lap.* 506, 2. *Dipt. Scand.* i. 162, 4. Dahlb. *Scand. Ins.* 308, 207. Loew, *Linn. Ent.* ii. 548, 8. *Asilus gilvus*, Linn. *Faun. Suec.* 1912. Gmel. *Ed. Syst. Nat.* v. 2897, 9. Fabr. *Sp. Ins.* ii. 462, 22. *Ent. Syst.* iv. 381, 22. Herbst, *Gem. Nat.* viii. 119, pl. 346, f. 4. Schæff. *Icon. pl.* 78, f. 6. Schrank. *Faun. Boic.* iii. 2544. *Asilus rufus*, Deg. *Ins.* vi. 97, 4, pl. 13, f. 15.

a. France.

*LAPHRIA marginata*, Fabr. *Syst. Antl.* 160, 17. Meig. *Dipt.* ii. 291, 7. Macq. *Dipt. Nord. Asil.* 33, 4. *Hist. Nat. Dipt.* i. 283, 11. Zeller, *Isis*, 1840, 75, 5. Zett. *Dipt. Scand.* i. 163, 6. Loew, *Linn. Ent.* ii. 556, 12. *Asilus marginatus*, Linn. *Syst. Nat.* xii. 1008, 10. *Faun. Suec.* 1913. Gmel. *Ed. Syst. Nat.* v. 2898, 10. Fabr. *Sp. Ins.* ii. 463, 16. *Ent. Syst.* iv. 381, 25. Deg. *Ins.* vi. 97, 5, t. 14, f. 1. Schrank. *Faun. Boic.* iii. 2545. Fall. *Dipt. Suec. Asil.* 5, 5. *Laphria nigra*, Meig. *Dipt.* ii. 293, 11. *Germ. Faun.* ii. 24. *L. fulgida*? Meig. *Dipt.* ii. 298, 20.

a. England.

b. France.

*LAPHRIA auribarbis*, Meig. *Dipt.* ii. 292, 8. Macq. *Hist. Nat. Dipt.* i. 283, 12. Loew, *Linn. Ent.* ii. 558, 13. *L. cincta*, Zeller, *Isis*, 1840, 74, 4.

a. ——— ?

Div. III., Loew. First hind border areolet closed.

*LAPHRIA atra*, Fabr. *Syst. Antl.* 159, 13. Latr. *Gen. Crust.* iv. 299. Meig. *Klass. Zweif.* i. 265, a. *Dipt.* ii. 302, 28. Macq. *Dipt. Nord.* 41, 8. *Hist. Nat. Dipt.* i. 285, 23. Zeller, *Isis*, 1840, 76, 8. Zett. *Dipt. Scand.* i. 164, 9. Loew, *Linn. Ent.* ii. 564, 17. *Asilus ater*, Linn. *Faun. Suec.* 1910. Gmel. *Ed. Syst. Nat.* v. 2897, 7. Fabr. *Sp. Ins.* ii. 462, 10. *Ent. Syst.*

- iv. 379, 15. *Schränk. Ins. Austr.* 993. *Laphria violacea*,  
*Meig. Klass. Zweif.* i. 262, 5.  
 a. Switzerland. Presented by Dr. Dowler.  
 b. ——— ?

## Exotic Species.

## Group I.

- LAPHRIA labiata*, *Fabr. Syst. Antl.* 160, 20. *Wied. Dipt. Exot.* i. 232, 1. *Auss. Zweif.* i. 499, 1. *Dasyopogon rufimanus*, *Perty, Del. Anim. Art.* 181, pl. 36, f. 6. *Megapoda cyanea*, *Macq. Hist. Nat. Dipt.* i. 288, 1. *M. labiata*, *Macq. Dipt. Exot.* i. 2, 59, pl. 5, f. 3.  
 a. Brazil.  
 b. Brazil. From Mr. Walker's collection.

## Group II.

- LAPHRIA Shalumus*, n. s., mas. *Ferruginea, capite pectoreque piceis, thoracis vittis tribus nigris, abdominis fasciis nigris lateribusque piceis, antennis nigris apice ferrugineis, pedibus ferrugineis, femoribus nigro vittatis, alis fulvis.*

Head piceous, narrower than the chest, covered above with golden down, beset behind the eyes with black and tawny bristles, thickly clothed beneath with pale yellow hairs; crown beset on each side with black hairs; clypeus armed with a few long black hairs and with eight very long black bristles: eyes bronze; fore part flat, distinguished also from the convex part by its much larger facets: lip and tongue black, clothed with ferruginous down; hypostoma piceous; first and second joints of the feelers black, clothed with long black hairs; second joint slightly club-shaped, ferruginous at the tip, a little shorter than the first; third joint spindle-shaped, ferruginous, longer than the first and second joints, armed at the tip with a very short spine—the rudiment of the fourth joint: neck adorned with a ruff of ferruginous hairs, and on each side with a thick tuft of pale shining golden hairs: chest ferruginous, clothed with very short black hairs, beset on each side and behind with long black bristles, adorned with three black stripes; middle stripe decreasing in breadth along its whole length from the front, whence to the middle it is slightly inlaid with a slender ferruginous stripe; side stripes short and interrupted by two oblique bands: breast piceous, ferruginous beneath the base of the wings: abdomen

ferruginous, long spindle-shaped, as broad as the chest and full twice its length, piceous on the sides and black on the borders of each segment, thinly clothed with short tawny hairs, and adorned on each side with thick clusters of long tawny hairs; under-side black; first and second segments short; third and following segments long, but successively decreasing in length: legs ferruginous, clothed with short black hairs, and armed with black spines; a black stripe on each thigh; claws black, ferruginous at the base; foot-cushions tawny; middle shanks slightly curved, their tips armed with a very stout tubercle which is provided with two teeth: wings tawny; wing-ribs and veins ferruginous; poisers tawny. Length of the body 17 lines; of the wings 32 lines.

a. Hong-Kong, China. Presented by J. C. Bowring, Esq.

### Group III.

LAPHRIA rufibarbis, *Fabr. Syst. Antl.* 157, 4. *Wied. Dipt. Exot.* i. 233, 2. *Auss. Zweif.* i. 500, 3.

a. ———?

b. Congo.

LAPHRIA Ufens, n. s., mas. *Nigra, pilis fulvis nigrisque vestita, abdomine purpureo, subtus piceo, apice nigro, antennis nigris apice piceis, pedibus fulvis, alis fuscis.*

Head and chest black, slightly shining: head a little narrower than the chest, clothed with bright tawny hairs, which are very thick on the front and on the clypeus; sides of the crown and hind borders of the eyes beset with black bristles; eyes bronze; fore part flat, composed of large facets, clearly distinguishable from the other part: tongue black, longer than the lip, clothed beneath with tawny down: lip black, not much longer than the head, ferruginous at the base, crowned with yellow hairs at the tip: first and second joints of the feelers ferruginous; first joint linear, clothed with ferruginous hairs; second joint clothed with black bristles, not half the length of the first; third joint piceous, spindle-shaped, very much broader than the first and the second joints and nearly twice their length: chest and breast clothed with black hairs: chest with a slight brassy tinge, beset on each side and behind with black bristles: breast slightly covered with dark tawny down: abdomen purple, shining, clothed with very short black hairs and on each side with longer black hairs, slightly convex, piceous beneath, ferruginous at the tip, rather narrower than the chest and not near twice its length; first segment very short; second and third segments of equal length;

fourth and fifth segments a little longer; sixth segment a little shorter; seventh segment still shorter: legs bright tawny, clothed with tawny hairs (which are very long on the thighs and on the shanks of the four front legs), and beset with spines and bristles, nearly all of which are on the feet; hips and trochanters black; claws black, tawny towards the base; foot-cushions yellow: wings dark brown, with a slight purple lustre; disks of the areolet paler; wing-ribs and veins black; poisers piccous. Length of the body 11 lines; of the wings 19 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

LAPHRIA Reinwardtii, *Wied. Auss. Zweif.* i. 503, 7.

a. Java.

#### Group IV.

LAPHRIA Amandus, n. s. *Nigra, capite pectoreque cinereis, abdomine rufo lateribus nigris, antennis pedibusque nigris, alis limpidis basi costâ venarumque marginibus subfulvis.*

Head gray, a little narrower than the chest, very thickly clothed with long white hairs, and beset behind with a cross row of tawny bristles: some black bristles on the tubercle of the eyelets: eyes bronze-black, flat or very slightly concave in front, where the facets are large, but the division of the eye into two regions is not very distinct: clypeus and front clothed with white down, the former beset with long black bristles: lip black, about twice the length of the head, clothed at the tip with short tawny hairs; tongue thickly beset with black bristles; palpi black, clothed with black hairs and bristles: feelers black; first and second joints clothed with white hairs and black bristles; second joint not half the length of the first, slightly club-shaped; third joint nearly linear, a little longer than the first and the second joints: neck short, with a cross furrow: chest black, adorned with five dark ferruginous stripes, and with two oblique bands on each side between the outer and inner pair of these stripes; outer stripes covered with a shining white bloom; sides and hind part of chest, and scutcheon, beset with black bristles; hind border of the scutcheon dark ferruginous: hind chest and breast hoary, the latter thickly clothed with long white hairs: abdomen dark red, clothed with short black hairs, black along each side, which is clothed with black and white hairs, among which are some dark red bristles with white tips; hind borders of the segments clothed with short tawny hairs; under-side red, shining: legs black, long, clothed with long white hairs; hind thighs and hind



shanks towards the tips, and feet, clothed with black hairs; claws black; foot-cushions dark tawny; hind thighs not thick nor armed with teeth, but slightly curved; shanks, especially the fore pair, slightly curved: wings colourless, slightly tawny at the base and on the fore borders, and along the borders of the veins; tips and hind borders till near the base slightly gray; wing-ribs and poisers piceous; veins black. Length of the body 17 lines; of the wings 30 lines.

a. Brazil.

**LAPHRIA** Tectamus, n. s., fem. *Nigra, capite pectoreque canis, thoracis vittis quatuor canis, abdomine cyaneo, antennis nigris, pedibus nigro-cyaneis, alis limpidis venis fusco subnebulosis.*

Body black: head a little narrower than the chest, covered with hoary lustre, and thickly clothed with long hoary hairs; two long tawny bristles on the tubercle of the eyelets; clypeus very prominent, armed with long black bristles: eyes bronze-black; a very small part of the front is flat, and has larger facets, but the boundary line between the two parts is tolerably distinct: lip black, rather short, clothed at the base with long white hairs and at the tip with short piceous hairs; tongue piceous, clothed beneath with ferruginous down: feelers black; first joint linear, thickly clothed with hoary hairs; second joint slightly club-shaped, beset with a few black bristles, piceous at the tip, narrower than the first joint and hardly more than half its length; third joint spindle-shaped, rather longer and broader than the first and the second joints: chest covered with hoary down, which has a silvery lustre on four irregular stripes, beset on each side and behind with black hairs and bristles: breast hoary and clothed with hoary hairs: abdomen blue, shining, rather thickly clothed with very short black hairs, narrower than the chest and much less than twice its length; segments from the first to the third hoary above and clothed with long hoary hairs, piceous beneath: legs dark blue; thighs and shanks clothed with hoary hairs and beset with a few black bristles; feet black, beset with black bristles; claws black; foot-cushions tawny: wings colourless; longitudinal veins from the disk to the border of the wing slightly clouded with brown; wing-ribs and veins black; poisers piceous. Length of the body 10 lines; of the wings 20 lines.

a. Port Essington. From Mr. Gould's collection.

## Group V.

*LAPHRIA* Olbus, n. s., fem. *Cyanea*, abdomine æneo-cyaneo, antennis nigris, pedibus purpureo-cyaneis, alis nigro-purpureis.

Body deep metallic blue, shining: head as broad as the chest, covered with hoary down and thinly clothed with hoary hairs; sides of the crown covered with a few black hairs; tubercle of the eyelets armed with two long black bristles; front and clypeus armed with silvery down, the latter thickly beset with black bristles; eyes dark bronze; fore part flat and composed of large facets, which, as usual, diminish in size on approaching the outward border: lip rather long, black, clothed at the tip with short tawny hairs; palpi black and clothed with black hairs: feelers black; first and second joints covered with black hairs; second joint about half the length of the first; third joint long spindle-shaped, slightly concave on one side near the tip, very much longer than the first and the second joints: chest thinly clothed with short black hairs, beset on each side and behind with a few black bristles: breast covered with hoary down: abdomen linear, almost flat, with a bronze tinge, narrower and longer than the chest, but much less than twice its length; first and second segments short, convex; third and following segments long and of nearly equal length; tip tawny: legs purplish blue, covered with a few short black hairs and bristles; fore shanks and middle shanks beset with some longer bristles; fore shanks slightly curved; middle shanks straight; hind shanks curved, clothed beneath for two-thirds of the length from the base with short white hairs; feet black towards the tips, clothed beneath with ferruginous down; claws black; foot-cushions dull ferruginous: wings purplish black; wing-ribs and veins black; poisers yellow. Length of the body 9 lines; of the wings 18 lines.

a. Honduras. From Mr. Dyson's collection.

## Group VI.

*LAPHRIA* saffrana, Fabr. Syst. Antl. 160, 18. Wied. Dipt. Exot. i. 234, 4. Auss. Zweif. i. 504, 9.

a. North America. Presented by the Entomological Club.

b. ———?

*LAPHRIA* erythropyga, Wied. Auss. Zweif. i. 509, 17.

a. Brazil. From Mrs. Mornay's collection.

b. ———?

**LAPHRIA** Telecles, n. s., mas. et fem. *Cyanea, albo pilosa, thorace albo bimaculato, antennis nigris, pedibus cyaneis, alis limpidis fusco variis.*

Body blue, shining, clothed with white hairs: head nearly as broad as the chest, rather thickly clothed with hairs, having a tuft of black bristles on each side of the crown and a thick tuft of black bristles on the clypeus: eyes black; fore part flat, distinct from the other part, and with larger facets: lip black, short, its tip clothed with yellow hairs: feelers black; first joint linear, thickly clothed with long black hairs; second joint cup-shaped, beset with black bristles, less than half the length of the first; third joint spindle-shaped, broader and a little longer than the first and the second joints: chest very thinly clothed with hairs, adorned with a bright white spot on each side in front: breast white and clothed with long white hairs: abdomen of the male linear, of the female spindle-shaped, much narrower than the chest and nearly twice its length; the sides clothed with white hairs, especially towards the base: legs blue, stout, not armed with teeth, clothed with white hairs; feet black, beset with black hairs and bristles; claws black; foot-cushions dull ferruginous; hind thighs thick, yellow from the base to the middle; hind shanks much curved: wings brown; disks of the areolets colourless; wing-ribs and veins black; poisers tawny. Length of the body 6—8 lines; of the wings 10—12 lines.

a. West Australia. From Mr. Clifton's collection.

**LAPHRIA** clavipes, *Fabr. Syst. Antl.* 162, 27. *Wied. Dipt. Exot.* i. 237, 9. *Auss. Zweif.* i. 513, 23. *Lampria clavipes, Macq. Dipt. Exot.* i. 2, 61, 2.

- a. Para. Presented by Reginald Graham, Esq.
- b. Para. Presented by Gordon Graham, Esq.
- c. Brazil. Presented by J. P. George Smith, Esq.
- d. Demerara. Presented by J. S. Bowerbank, Esq.
- e. Brazil. Presented by the Entomological Club.
- f. Brazil. From Mr. Tucker's collection.
- g. Brazil.

**LAPHRIA** Macquartii, *Perty, Del. Anim. Art.* 181, pl. 36, f. 3.

- a. Brazil. Presented by J. P. George Smith, Esq.
- b. Brazil. Presented by the Entomological Club.
- c. Para. Presented by Gordon Graham, Esq.
- d. Brazil. From Mr. Walker's collection.
- e. Brazil.

*LAPHRIA spinipes*, *Fabr. Syst. Antl.* 162, 28. *Wied. Dipt. Exot.* i. 240, 17. *Auss. Zweif.* i. 525, 45. *L. affinis*, *Fabr. Syst. Antl.* 163, 29.

a. Para. Presented by J. P. George Smith, Esq.

*LAPHRIA Tolmides*, n. s. *Rufa, capite thoracis lateribus abdominisque apice nigris, pedibus cyaneis, alis nigris.*

Body red, dull: head black, a little broader than the chest, sides of the front and clypeus thickly clothed with golden hairs, the latter also beset with black bristles: lip black, rather longer than the head; rest of the mouth ferruginous: neck beset with black bristles: chest with a black stripe on each side, parallel to the curve of the border: a tuft of black bristles on each side of the hind chest: breast partly clothed with yellow hairs: abdomen rather narrower than the chest, and less than twice its length, slightly decreasing in breadth from the base to the tip, which is black: legs blue, clothed with black hairs; claws black; foot-cushions red; hind thighs thick, armed beneath with short teeth; hind shanks curved: wings black; wing-ribs and veins also black; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. Brazil? From Mr. Argent's collection.

#### Group VII. Hoplistomera, *Macquart*.

*LAPHRIA serripes*, *Fabr. Syst. Antl.* 159, 16. *Wied. Auss. Zweif.* i. 505, 11. *L. maculipennis*, *Macq. Hist. Nat. Dipt.* i. 285, 22. *Dasypogon serripes*, *Wied. Dipt. Exot.* i. 211, 11. *Hoplistomera serripes*, *Macq. Dipt. Exot.* i. 260, 1, pl. 5, f. 4.

a. Gambia. Presented by the Entomological Club.

#### Group VIII.

*LAPHRIA Dymes*, n. s. *Nigra, pilis argenteis vestita, capite aureo pubescente, antennis nigris, pedibus rufis, alis fuscis basi limpidis marginibusque posticis sublimpidis.*

Body black, dull, linear, clothed with very short golden hairs: head as broad as the chest, clothed with hoary hairs: a silvery tuft of hairs on each side of the front: tubercle of the cyelets beset with two tawny bristles: clypeus armed with a few long black bristles: eyes bronze; fore part flat, composed of large facets, and distinct from the other part: lip black, shining, clothed at the base with black hairs and at the tip with very short tawny hairs: feelers

black; first and second joints clothed with black hairs; first joint linear; second joint very short, not half the length of the first; third joint very long, linear, much more than thrice the length of the first and the second joints: chest beset with a few black bristles on each side, adorned, as is the breast, with silvery down, which also forms a spot on each side of the front of the chest: breast covered with hoary bloom: abdomen linear, slightly convex, as broad as the chest and about twice its length; first segment extremely short; second and following segments of moderate and equal length, with an impression on each side; tip mutilated: legs red; hips black, covered with hoary bloom; shanks beset with tawny bristles; feet dark red, armed with tawny spines, clothed beneath with golden down; claws black, red at the base; foot-cushions tawny; hind thighs rather thick, armed beneath with some tawny teeth; hind shanks nearly straight: wings brown, colourless towards the base; disks of the areolets on the hind border nearly colourless; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

*a.* Sierra Leone. Presented by the Rev. D. F. Morgan.

*LAPHRIA flavipes*, Wied. *Dipt. Exot.* i. 238, 12. *Auss. Zweif.* i. 519, 33. *Macq. Dipt. Exot.* ii. 1, 63, 1.

*a.* Port Natal. From Dr. Krauss's collection.

*LAPHRIA* Sadales, n. s., mas. *Nigra, argenteo micans, antennis nigris, pedibus rufis, tarsis nigris, alis subfuscis basi limpidis.*

Body black, shining, thickly covered with golden down, narrow, linear: head as broad as the chest, clothed above with black hairs and more thickly clothed beneath with hoary hairs; a tuft of silvery hairs on each side of the clypeus, which is most thickly clothed with long black bristles: eyes black; fore part small, but composed of larger facets, and very distinct from the other part: lip black, shining, a little longer than the head, clothed at the base with hoary hairs and at the tip with very short tawny hairs: feelers black; first and second joints clothed with black hairs; first joint linear; second joint cup-shaped, not half the length of the first; third joint linear, much longer than the first and the second joints, but not near twice their length: under-side of the head behind the eyes, two oblique spots on the fore part of the chest, and some marks on the breast, of silvery lustre: sides of the chest beset with a few black bristles: hind chest with a slight tuft of long black hairs on each side: abdomen as broad as the chest and about twice its length, with a few hoary hairs on each side at the base; first segment extremely short; second and following segments to the seventh of equal and mode-

rate size, with an impression on each side; eighth and ninth segments very small: legs red, clothed with tawny hairs; hips black, clothed with hoary hairs; shanks and feet beset with black spines; shanks with a silvery lustre at the base; feet and claws black; foot-cushions tawny; hind thighs not thick; hind shanks slightly curved; wings pale brown, colourless towards the base; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body 6 lines; of the wings 10 lines;

The little cross-vein in the disk is double in one wing of the specimen described.

a. New York. Presented by the Entomological Club.

LAPHRIA Antæa, n. s. *Nigra, pilis nigris vestita, pectore pilis nonnullis canis, abdomine rufo pilisque rufis vestito, antennis pedibusque nigris, alis cinereo-fuscis.*

Body black, shining, head as broad as the chest, clothed with black hairs, which are most frequent beneath; a stripe of short white hairs on each side of the front between the clypeus and the base of the feelers; clypeus armed with a tuft of long black bristles: eyes bronze-black; fore part flat, with large facets, and very distinct from the other part: lip black, shining, a little longer than the head, clothed with black hairs at the base; its tip covered with short tawny hairs: feelers black; first and second joints clothed with short black hairs; first joint linear; second joint not near half the length of the first; third joint nearly linear, rather narrower at the base and near the tip, about twice the length of the first and of the second joints: chest and breast punctured, thinly clothed with short black hairs, the former beset with a few black bristles on each side, the latter partly clothed with longer hoary hairs: abdomen bright red, punctured, clothed with very short red hairs, nearly as broad as the chest and about twice its length, very slightly convex; segments impressed on each side, successively increasing in length from the first to the sixth; seventh segment a little shorter than the sixth; eighth and ninth segments very short, the latter black: legs black, clothed with short black hairs and with a few black bristles; claws black; foot-cushions tawny; feet clothed beneath with dark tawny down; hind thighs thick, and armed with short slender black teeth, which are ferruginous at the base: wings very dark brown with a slight bluish lustre, pale along the hind borders, where some of the areolets have pale gray spots in the middle; wing-ribs and veins black; poisers yellow. Length of the body 5—5½ lines; of the wings 9—10 lines.

a. Florida. Presented by E. Doubleday, Esq.

b. ——— ?

**LAPHRIA Amaracus**, n. s., mas. *Fulva, thorace vittis tribus cinereis, abdomine nigro, antennis nigris, femoribus ferrugineis apice nigris, tibiis flavis apice tarsisque nigris, his basi ferrugineis, alis fuscis.*

Body stout, tawny: head as broad as the chest, furnished with a few black hairs on the tubercle of the eyelets and on the sides of the eyes, beset behind with black bristles and clothed beneath with white hairs; clypeus armed with long black bristles: eyes dark green; fore part flat, quite distinct from the other part, and composed of much larger facets: lip black, shining, clothed at the base with long white hairs and at the tip with short pale tawny hairs; palpi black, thickly beset with black bristles: feelers black; first joint beset with black bristles; second joint clothed with black hairs, slightly clavate, much shorter than the first; third joint much longer than the first and the second joints, slightly increasing in breadth till near the tip, then becoming more slender: chest with three very broad gray stripes and with three rows of black hairs; sides beset with black bristles: abdomen tapering from the base to the tip, black, shining, crossed by numerous little furrows, clothed with tawny hairs, adorned with bands of tawny down along the hind borders of the segments, rather narrower than the chest and less than twice its length; segments from the third successively decreasing in length: legs stout, clothed with short yellow hairs, beset with black bristles; hips gray; thighs ferruginous, with black tips; shanks yellow, with black tips; feet black; first joint ferruginous from the base to the middle; claws black; foot-cushions brown: wings brown, paler on the hind borders towards the base; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with ferruginous knobs. Length of the body 5 lines; of the wings 10 lines.

a. New Holland. Presented by J. Hunter, Esq.

### Group IX.

**LAPHRIA submetallica**, Macq. *Dipt. Exot.* i. 2, 63, 3.

a. Isle of France.

**LAPHRIA Taphius**, n. s., fem. *Nigra, pilis nigris vestita, thorace nigro-fusco, pectore pilis nonnullis canis, abdomine purpureo, antennis nigris, pedibus nigro-purpureis, alis nigris.*

Body black, clothed with short black hairs: head a little broader than the chest, clothed with long black hairs, which are most frequent beneath; two long black bristles on the tubercle of the eyelets; clypeus armed with long black bristles: eyes bronze:

the flat part comprises only a small part of the front, but is composed of very large facets, and quite distinct from the other part : lip black, shining, much longer than the head, clothed with black hairs at the base, ferruginous and covered with short tawny hairs at the tip : feelers black ; first and second joints clothed with black hairs ; second joint full half the length of the first ; third joint spindle-shaped or nearly linear, much longer than the first and the second joints, but not near twice the length : chest covered with a brown bloom, beset with some black bristles on each side : breast partly clothed with hoary hairs : abdomen bluish purple, shining, linear, convex, clothed with very short black hairs, thickly crossed with very little furrows, rather narrower than the chest and rather less than twice its length ; first segment extremely short ; second and third segments of moderate length ; fourth, fifth and sixth segments longer ; seventh segment shorter ; eighth and ninth segments very small : legs purplish black, clothed with hoary hairs ; shanks and feet beset with black bristles ; claws black ; foot-cushions piceous ; hind legs longer than the rest, their thighs not thick nor armed with teeth, their shanks slightly curved : wings black, pale gray towards the base ; wing-ribs and veins black ; poisers piceous. Length of the body 5 lines ; of the wings 10 lines.

a. Philippine Islands. From Mr. Wood's collection.

### Group X.

*LAPHRIA Aëatus*, n. s. *Nigra, pectore cinereo, abdomine piceo, dorso ferrugineo, antennis pedibusque nigris, alis basi limpidis apice sublimpidis.*

Body black, shining, rather slender, thinly clothed with hairs : head a little narrower than the chest, covered with hoary or silvery lustre, and clothed with black and white hairs ; front and clypeus thickly beset with long black bristles ; two black bristles on the tubercle of the eyelets : eyes black ; fore part flat, distinct from the other part, and with much larger facets : lip black, its tip clothed with short ferruginous hairs : feelers black ; first joint linear, clothed with black hairs ; second joint beset with black bristles, not half the length of the first ; third joint spindle-shaped, much longer than the first and the second, but not twice their length : chest thinly clothed with hoary and tawny hairs : breast gray and clothed with hoary hairs : abdomen linear, piceous, convex, obconical at the tip, nearly as broad as the chest but less than twice its length, hairless beneath, ferruginous and clothed with ferruginous hairs on the back, excepting the base, which has a fringe of long white hairs on each side :



legs black, rather slender, not armed with teeth, clothed with short gray hairs; shanks hardly curved; thighs and shanks beset with a few black bristles; feet armed with short black spines; claws black; foot-cushions dark tawny: wings colourless for half the length from the base, light brown thence to the tips; wing-ribs and veins black; poisers ferruginous. Length of the body 6—8 lines; of the wings 12—14 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.

*LAPHRIA posticata*, Say, *Long's Exped. to St. Peter's River*, App. 374, 1. *Wied. Auss. Zweif.* i. 518, 32.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.
- c. Maine. Presented by the Entomological Club.
- d. ——— ?

*LAPHRIA thoracica*, *Fabr. Syst. Antl.* 158, 10. *Wied. Dipt. Exot.* i. 236, 8. *Auss. Zweif.* i. 511, 21.

- a. Nova Scotia. From Lieut. Redman's collection.
- b. New York. Presented by E. Doubleday, Esq.

*LAPHRIA sericea*, Say, *Journ. Acad. Phil.* iii. 74, 4. *Amer. Ent. pl.* vi. *Wied. Auss. Zweif.* i. 508, 16.

- a. Ohio. Presented by the Entomological Club.
- b. ——— ? From Mr. Children's collection.
- c. Canada.
- d. Nova Scotia. From Lieut. Redman's collection.

*LAPHRIA* *Sacrator*, n. s. *Æneo-atra, sublinearis, vix lata, pilis flavis nigrisque hirta, pectore ventrequae piceis, antennis nigris, pedibus piceis, tarsis ferrugineis, alis limpidis.*

Body bronze-black, nearly linear, not very broad, thickly clothed with hairs: head narrower than the chest, clothed with black and yellow hairs; the latter are most frequent on the front and on the clypeus, where the hairs are longest; tubercle of the eyelets beset with two black bristles: eyes black; fore part flat, very distinct from the other part, and having much larger facets: lip black, short, its tip clothed with ferruginous hairs; feelers black; first joint linear, clothed with black hairs; second joint cup-shaped, beset with black bristles, not half the length of the first; third joint slightly tapering from near the base to the tip, about twice the length of the first and

of the second joints: chest clothed with yellow hairs: breast and under-side of the abdomen piceous, almost hairless: back of the abdomen clothed with yellow hairs from the base to the middle, and with black hairs thence to the tip: legs piceous, thickly clothed with tawny and black hairs, not armed with teeth; hind thighs rather thick; hind shanks slightly curved; feet ferruginous and clothed with ferruginous hairs, as are also the tips of the shanks; claws black, ferruginous at the base; foot-cushions tawny: wings colourless; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny. Length of the body  $7\frac{1}{2}$ —8 lines; of the wings 15—16 lines.

a. Nova Scotia. Presented by F. Walker, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

LAPHRIA lasipes, Wied. *Auss. Zweif.* i. 502, 6.

a. Newfoundland. Presented by W. C. St. John, Esq.

LAPHRIA tergissa, Say, *Journ. Acad. Phil.* iii. 75, 5. *Wied. Auss. Zweif.* i. 502, 5.

a. Georgia. From Mr. Abbot's collection.

LAPHRIA Alcanor, n. s., mas. *Æneo-atra, lata, crassa, pilis nigris flavisque vestita, antennis nigris, pedibus piceis, alis subfuscis, marginibus posticis sublimpidis.*

Body bronze-black, broad, stout, very thickly clothed with hairs: head small, very much narrower than the chest, thickly clothed with black hairs, especially on the front and on the clypeus: eyes black; fore part flat, composed of large facets, and distinguishable from the other part: lip short, stout, its tip clothed with ferruginous hairs: feelers black; first joint hairy, linear; second joint bristly, cup-shaped, about half the length of the first: chest clothed with yellow hairs: breast almost hairless: abdomen almost hairless at the base, excepting a tuft of black hairs on each side; then comes a broad yellow band of hairs extending to a little beyond the middle of the back, the rest of whose surface is clothed with black hairs: legs piceous, stout, thickly clothed with black and dark ferruginous hairs, not armed with teeth; thighs rather thick; shanks curved, especially the hind pair; tips of the thighs and under-side of the fore shanks adorned with ferruginous down; claws black; foot-cushions dark tawny: wings very light brown; disks of the areolets along the hind borders colourless; wing-ribs and veins ferruginous, the latter piceous towards towards the tips; poisers dark tawny. Length of the body 9 lines; of the wings 16 lines.

a. Massachusetts: From Prof. Sheppard's collection.

**LAPHRIA Alebas**, n. s., fem. *Nigra, crassa, flavo-hirta, pectore abdomineque piceis, antennis ferrugineis basi piceis, pedibus ferrugineis, alis albis.*

Body black, broad, thick, and most thickly covered with short close hairs: head much narrower than the chest, clothed with pale yellowish brown hairs above, in front and beneath, and with pale tawny hairs behind: eyes bronze-black, flat on the fore part, where the facets are much larger, and the line between the two regions is distinct: lip black, very stout, clothed towards the tip with short yellow hairs; tongue black, covered beneath with yellow down: feelers ferruginous; first joint piceous, nearly linear; second joint cup-shaped, beset with a few black bristles, hardly more than half the length of the first; third joint very long spindle-shaped, very much more than twice the length of the first and of the second joints: chest clothed with pale yellow hairs: breast piceous: abdomen piceous, elliptical, broader and longer than the chest, clothed above with pale yellowish brown hairs: legs ferruginous, thickly clothed with tawny hairs; thighs paler at the base; shanks beneath at their tips and under-side of feet covered with shining pale yellow bloom; hind thighs thick, not armed with teeth; hind shanks curved; fore shanks armed on the middle of the under-side with about four stout short teeth; claws black, ferruginous towards the base; foot-cushions yellow; shanks, and more especially the feet, beset with black bristles: wings white; wing-ribs, veins and poisers yellow. Length of the body 10 lines; of the wings 20 lines.

a. ——— ?

**LAPHRIA Tidius**, n. s. *Æneo-utra, lata, pilis flavis vestita, pectore piceo, abdomine apice nudo subtus piceo, antennis nigris, pedibus piceis, alis subfuscis marginibus posticis sublinpidis.*

Body bronze-black, broad, thick, clothed with yellow hairs: head much narrower than the chest, clothed with shining yellow hairs, which are thickest on the front and on the clypeus; crown thinly clothed with dark tawny hairs: eyes bronze-black; fore part flat, composed of larger facets, distinct from the other part: lip short, stout, its tip clothed with short ferruginous hairs: feelers black; first joint nearly linear, clothed towards the base with long yellow hairs; second joint cup-shaped, beset with a few black bristles, hardly less than half the length of the first; third joint slightly increasing in breadth from the base till near the tip, which is conical, about twice the length of the first and the second joints: chest thickly clothed with bright yellow hairs; breast piceous, with a few dull yellow hairs; scutcheon beset with black bristles: abdomen

linear, obconical towards the tip, as broad as the chest and much longer; disks of the fore borders of the segments and the whole of the two last segments hairless: legs piceous, stout, not armed with teeth, clothed with short black hairs and beset with black bristles; thighs and shanks partly clothed with yellow hairs; hind thighs rather thick; shanks, especially the hind pair, curved; claws black; foot-cushions piceous: wings pale brown; disks of the areolets along the hind border colourless; wing-ribs, veins and poisers ferruginous. Length of the body 9 lines; of the wings 18 lines.

a. ——— ?

### Group XI.

LAPHRIA hirtipes, *Fabr. Syst. Antl.* 158, 8. *Wied. Dipt. Exot.* i. 235, 5. *Auss. Zweif.* i. 504, 10.

a. Var. ? abdomen and wings entirely black. Africa. Presented by J. D. Tebbis, Esq.

LAPHRIA Xylocopiformis, n. s., fem. *Æneo-atra, purpureo micans, nigro pilosa, capite albo piloso, thoracis fasciculis duobus flavis, antennis pedibusque nigris, alis purpureo-nigris.*

Body broad, bronze-black with a purple tint, clothed with short black hairs; head a little narrower than the chest, clothed with white hairs on the crown and on the front, and with long black hairs beneath; clypeus armed with many black bristles: lip black, shining, not so long as the head, beset at the base with black bristles, clothed at the tip with short piceous hairs: eyes black; fore part flat, tolerably distinct from the other part and composed of larger facets: feelers black, very small, but little longer than half the breadth of the crown between the eyes; first and second joints shining, slightly club-shaped, beset with a few black bristles; second joint more slender and a little shorter than the first; third joint very long spindle-shaped, dull, hairless, about twice the length of the first and the second joints: sides of the chest thickly clothed with long black hairs, and each adorned in front with a tuft of very bright yellow hairs: abdomen nearly oval, smooth, shining, a little broader than the chest, thickly clothed on each side with black hairs; first segment very short; second segment short; third and four following segments of equal length; eighth and ninth segments very small: legs black, stout, thickly clothed—especially the shanks—with black hairs; hind thighs not thick nor armed with teeth; hind shanks curved slightly, but more so than the other shanks; claws black; foot-cushions pale piceous, whitish beneath: wings black,

adorned with bluish purple lustre; wing-ribs and veins black; poisers piceous. Length of the body 15 lines; of the wings 28 lines.

a. Madras. Presented by Walter Elliott, Esq.

## Group XII.

LAPHRIA Echemon, n. s., fem. *Nigra, thorace nigro-æneo, antennis pedibusque nigris, genubus ferrugineis, tibiis tarsisque posticis latis, alis sublimpidis.*

. Head gray, a little narrower than the chest, clothed behind and beneath with white hairs; front and clypeus covered with shining whitish down, the latter beset with pale yellow hairs and bristles: lip black, clothed at the tip with short tawny hairs; tongue tawny; palpi black, clothed with black hairs: eyes dark reddish bronze; fore part convex, its facets very little larger than those of the other part: feelers black; first and second joints of nearly equal length, beset with black hairs; third joint spindle-shaped, longer than the first and the second joints: chest brassy black, punctured, shining, with a few short pale hairs on each side; shoulders and breast gray, the latter clothed with short hoary hairs: abdomen black, thickly punctured, shining, clothed with tawny down, nearly linear, convex, as broad as the chest and about twice its length; segments from the base successively increasing in length: legs black, thinly clothed with short white hairs, and beset with a few long slender white bristles; shanks at the base and knees ferruginous; feet clothed beneath with ferruginous down; claws black, ferruginous at the base; foot-cushions tawny; hind shanks club-shaped, thickly clothed beneath with short tawny hairs; hind feet broad: wings with a very slight gray tinge; wing-ribs piceous; veins black; the two fore border veins united for some length before their end; the two cross-veins that bound the second and the third hinder arcolets forming an uninterrupted line; poisers yellow. Length of the body 3 lines; of the wings 6 lines.

a. Ohio. Presented by the Entomological Club.

## ASILUS, Linn.

### Group I.

ASILUS coriarius, Wied. Auss. Zweif. ii. 644, 62. Craspedia coriaria, Macq. Dipt. Exot. i. 2, 83, 1; pl. 8, f. 1 (Blepharis cori-

arius). *Midas giganteus*, *Dict. Univ. d'Hist. Nat. pl. 1*,  
f. 5.

- a. New Holland. From the Hardwicke bequest.
- b. Port Stephen. Presented by the Earl of Derby.
- c. New Holland. From Mr. Lambert's collection.
- d. West Australia. From Mr. Clifton's collection.
- e. New Holland. From Mr. Walker's collection.

*ASILUS Audouinii*. *Craspedia Audouinii*, *Macq. Dipt. Exot. i. 2*,  
84, 2. *Blepharotes abdominalis*, *Westw. Naturalist's Libr.*  
xxxiv. pl. 37, f. 1.

- a. New Holland. Presented by R. Brown, Esq.
- b. New Holland. From Mr. Lambert's collection.

## Group II.

*ASILUS infernalis*, *Wied. Dipt. Exot. i. 202, 35*. *Auss. Zweif. 475*,  
76. *Perty, Del. Anim. Art. 181, pl. 36, f. 5*. *Mallophora in-*  
*fernalis*, *Macq. Hist. Nat. Dipt. i. 301, 1*.

- a. Brazil. From Mr. Mornay's collection.
- b. Brazil. From Mr. Walker's collection.
- c. Brazil.

*ASILUS bomboides*, *Hoffmansegg, Wied. Dipt. Exot. i. 203, 37*.  
*Auss. Zweif. i. 476, 77*. *Mallophora bomboides*, *Macq. Hist.*  
*Nat. Dipt. i. 302, 2*. *Dipt. Exot. ii. 1, 89, 11*.

- a. Georgia. From Mr. Abbot's collection.
- b. Georgia.

*ASILUS Pluto*, *Wied. Auss. Zweif. i. 477, 80*.  
a. Brazil.

*ASILUS tibialis*, *Macq. Dipt. Exot. i. 2, 85, 1*.

- a. Brazil. Presented by the Entomological Club.

*ASILUS Amphinome*, n. s., mas. et fem. *Piccus, abdomine ferrugi-*  
*neo pilis flavis vestito, basi nigro, antennis nigris, apice piceis,*  
*pedibus piceis, tibiis posticis fulvis, alis fulvis.*

Body piceous: head narrower than the chest, clothed behind and beneath with yellow hairs; crown covered on each side with tawny down and with a few black hairs; front and clypeus covered with pale yellow down, the latter prominent, thickly clothed with long pale yellow hairs: eyes dark bronze; fore part large, flat, its facets much larger than those of the other part: lip thick, black, clothed at the tip with short tawny hairs; palpi black and clothed

with black hairs: first and second joints of the feelers black, beset with a few black bristles; second joint much shorter than the first; third joint piceous, conical, as long as the first; bristle piceous, much longer than all the preceding joints: chest clothed with short tawny hairs, and beset on each side and behind with black bristles, which are most numerous on the scutcheon: abdomen ferruginous, black at the base, shining towards the tip; which in the female is armed with a circlet of short ferruginous spines, mostly piceous beneath in the male, thickly clothed with pale yellow hairs for about one-third of the length near the base, much narrower than the chest and about one-fifth longer; its breadth decreases slightly from the base to the middle, and thence more quickly to the tip: legs piceous, stout, clothed with black hairs and beset with black spines and bristles; foot-cushions piceous above, dull ferruginous beneath; hind shanks pale tawny, clothed with pale yellow hairs; hind feet ferruginous towards the base: wings dark tawny; wing-ribs, veins and poisers piceous. Length of the body 10 lines; of the wings 20 lines.

a. Honduras. From Mr. Miller's collection.

b. ——— ?

ASILUS Lampon, n. s., mas. *Piceus, nigro-pilosus, abdomine pilis flavis vestito, antennis piceis, articulo 2<sup>o</sup> ferrugineo, femoribus ferrugineis, tibiis flavis, tarsis nigris, alis fulvis basi et ad costam fuscis.*

Body piceous, a little narrower than the chest: head covered with pale yellow down, clothed behind and beneath with yellow hairs, beset behind the eyes with some black bristles; crown black; front covered with a few yellow hairs; clypeus dark ferruginous, thickly beset with long pale yellow bristles: eyes black; fore part large, nearly flat, its facets larger than those of the other part: lip stout, black, clothed with pale tawny hairs: feelers piceous; first and second joints beset with a few black hairs, of nearly equal length; first joint dark ferruginous; third joint nearly spindle-shaped, as long as the first and the second joints; bristle black, very much longer than the first and the second joints: chest clothed with short black hairs, beset on each side and behind with black bristles; the scutcheon is thickly armed with these bristles, and, like the breast and the sides of the chest, is covered with a ferruginous bloom: abdomen narrower but not longer than the chest, decreasing in breadth from the base to the tip, thickly clothed with pale yellow hairs, which on the back are mingled with black hairs towards the base, and the hairs are tawny towards the tip, which is black and shining: legs stout, clothed with black hairs and beset with black

bristles; hips and thighs piceous; thighs dark ferruginous; knees black; shanks yellow, with black tips; feet black, broad, clothed at the tips with hoary hairs; claws black; foot-cushions dark tawny; fore thighs and middle thighs thicker than the hind thighs; fore shanks and middle shanks clothed with yellow hairs: wings tawny, dark brown at the base and along the fore border for half the length; wing-ribs and veins black; poisers piceous, with tawny knobs. Length of the body 8 lines; of the wings 20 lines.

a. ——— ? Presented by the Entomological Club.

*ASILUS ater.* Mallophora atra, Macq. *Hist. Nat. Dipt.* i. 30, 2.

a. Para. Presented by Gordon Graham, Esq.

b. ——— ?

### Group III.

*ASILUS nigratarsis*, Wied. *Auss. Zweif.* i. 479, 84. *Dasypogon nigratarsis*, Fabr. *Syst. Antl.* 168, 18. *Mallophora nigratarsis*, Macq. *Dipt. Exot.* i. 2, 86, 4.

a. Demerara. Presented by J. S. Bowerbank, Esq.

b. Brazil. From Mr. Mornay's collection.

c. ——— ?

*ASILUS Copillus*, n. s., mas. et fem. *Fulvus, subtus canus, abdominis maculis nigris, antennis rufis, pedibus fulvis, alis subfulvis.*

Head as broad as the chest, covered with golden down, clothed on the crown and behind with tawny hairs and beneath with longer yellow hairs; front covered with a few yellow hairs; clypeus prominent, thickly beset with yellow bristles: eyes green and purple; fore part flat, very distinct from the other part, and composed of much larger facets: lip black, stout, clothed at the tip with short tawny hairs; palpi ferruginous, clothed with tawny hairs: first and second joints of the feelers red, covered with a few short black hairs; second joint about half the length of the first: chest covered with tawny down, thinly clothed with very short black hairs, beset on each side and behind with black bristles; a large spot on each side of the hind chest; breast hoary, clothed with very long pale yellow hairs: abdomen tawny, much narrower than the chest and rather less than twice its length, tapering from the base to the tip, thinly clothed with long yellow hairs, hoary beneath and on each side towards the base; a large black spot on each segment occupying most of its breadth and one-third of its length from the base; first and second segments very short; second segment arched, adorned with a thick tuft of tawny hairs on each side; third and following segments



long, but successively decreasing in length to the last, which is adorned with a cluster of silvery hair; sexual parts large, piceous, shining: legs bright tawny, clothed with pale yellow and black hairs,—the latter are scarce on the thighs, more frequent on the shanks, and most so on the feet, where the black spines are also most abundant: wings with a slight tawny tinge, reaching when closed nearly to the tip of the abdomen; wingribs pale ferruginous; veins black; poisers tawny. *Fem.*—Abdomen twice the length of the chest, black at the tip, not adorned with silvery hairs. Length of the body 10—12 lines; of the wings 15—20 lines.

a. ——— ?

*ASILUS fulvipes.* *Trupanea fulvipes?* *Macq. Dipt. Exot. i. 2, 93, 1.*

a. ——— ?

*ASILUS Guineensis, Wied. Anal. Ent. 25, 19. Auss. Zweif. i. 486, 92.*

a. *Sierra Leone.* Presented by the Rev. D. F. Morgan.

*ASILUS Poëtinus, n. s., mas. Fuscus, fulvo pubescens, thorace fulvo trivittato, abdominis fasciis lateribus ventrequè fulvis, antennis nigris, pedibus fulvis nigro variis, alis subfulvis.*

Head as broad as the chest, covered with pale tawny down, thickly clothed behind and beneath with pale yellow hairs, beset behind the eyes with a few black bristles; crown piceous, beset with black hairs on each side; front and clypeus very thickly clothed with long pale yellow and black hairs; clypeus prominent, armed with some long yellow bristles: lip black, clothed at the tip with short whitish hairs: palpi black, clothed with black hairs: eyes dark bronze; fore part flat, composed of much larger facets than the other part: feelers black; first and second joints beset with stout black hairs; second joint not half the length of the first; third joint tapering from the base to the tip, a little shorter than the first; bristle about twice the length of the third joint: chest tawny, thinly clothed with black hairs, beset on each side and behind with some black bristles: disk brown, adorned with three tawny stripes and with two oblique tawny bands; side stripes forked towards the hind border; scutcheon and hind chest pale tawny, thickly clothed with long yellow hairs: breast gray, partly clothed with yellow hairs: abdomen narrower than the chest and rather more than twice its length, tapering from the base to the tip, brown, clothed with yellow hairs, which are longest and most frequent towards the base; sides and hind borders of the segments and the whole of the under-side tawny; first and second segments very short; second

segment arched, clothed with tufts of hairs; third and following segments long, successively decreasing in length to the tip, which is piceous and shining: legs red, clothed with tawny hairs and armed with black spines; hips gray; trochanters black; fore and middle thighs on the upper side and tips of the hind thighs black; feet, claws and tips of shanks also black; foot-cushions dark piceous; hind thighs thickly clothed towards the tips beneath with black hairs: wings slightly tawny; wing-ribs and veins piceous. Length of the body  $9\frac{1}{2}$  lines; of the wings 14 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*ASILUS* Amorges, n. s., mas. *Fuscus, thorace bivittato, pectore cinereo, abdomine nigro, antennis nigris, pedibus rufis, femoribus et tibiis apice tarsisque nigris, alis fulvis.*

Head very nearly as broad as the chest, piceous, clothed behind and beneath with white hairs, beset behind the eyes with black bristles; front and clypeus adorned with tawny down; front beset with a few black hairs; clypeus armed with long black and tawny bristles: eyes bronze; fore part flat, composed of large facets: lip and palpi black, the latter clothed with long black and tawny hairs: feelers black; first joint clothed with black hairs; second joint beset with black bristles, about half the length of the first; third joint tapering from near the base to the tip, a little shorter than the first; bristle a little more than twice the length of the third joint: ridge of the neck armed with a row of black bristles: chest brown, with two indistinct darker stripes, beset on each side and behind with black bristles: breast gray, partly clothed with tawny hairs: abdomen black, very slightly tapering from the base to the tip, much longer and narrower than the chest but not near twice its length, clothed with black hairs; sides and hind borders of the segments piceous; first and second segments very short; third and following segments long, but successively decreasing in length; last segment adorned with some white hairs: legs dark red, thickly clothed with long and short black hairs, armed with some black spines; tips of the thighs and of the shanks mostly black; feet black; claws piceous at the base; foot-cushions tawny: wings dark tawny; wing-ribs, veins and poisers piceous. Length of the body 10 lines; of the wings 17 lines.

a. ——— ?

*ASILUS Lævinus*, n. s. *Fuscus, capite fulvo pubescente, thorace vittato, pectore ferrugineo, abdomine nigro, pedibus ferrugineis, femoribus nigro-vittatis, alis subfulvis, areola submarginali cinereo univittata.*

Body brown: head narrower than the chest, covered with pale yellow down, clothed behind and more thickly beneath with golden hairs, beset behind the eyes with a row of stout black bristles; crown pale brown, with some pale brown hairs on each side; front and clypeus thickly clothed with long golden hairs: eyes dark green; fore part flat, its facets much larger than those of the other part: lip stout, black, clothed at the tip with short tawny hairs; palpi black, clothed with black hairs: chest thinly clothed with very short black hairs; sides furnished with some whitish hairs, and beset like the hinder part with black bristles; a broad brown stripe occupies the middle, and is inlaid with two slender pale brown stripes: breast dark ferruginous, clothed with whitish hairs, partly covered with a hoary bloom: abdomen black, clothed with short black hairs; hind borders of the segments, especially on each side, adorned with longer hoary hairs: legs ferruginous, clothed with rather long pale yellow hairs, armed with black spines; thighs streaked with black: wings slightly tawny, with a gray streak on the submarginal areolet; wing-ribs ferruginous; veins piceous, ferruginous at the base; poisers tawny. Length of the body 10 (♀) lines; of the wings 14 lines.

*a. Massachusetts.* Prom Prof. Sheppard's collection.

*ASILUS Anicius*, n. s., fem. *Cinereus, thorace piceo quadrivittato, pectore abdominis segmentorum marginibus posticis ventreeque canis, pedibus nigris, tibiis fulvis, alis subfulvis aut limpidis.*

Body gray: head a little narrower than the chest, covered with hoary down, clothed thickly behind and beneath with yellow hairs, beset behind the eyes with black bristles; crown furnished with a few black hairs; front and clypeus covered with a few yellow hairs, the latter also armed with yellow bristles: eyes bronze-black; fore part slightly convex, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi beset with long pale yellow hairs: first and second joints of the feelers black, clothed with a few black hairs; second joint about half the length of the first: ridge of the fore chest clothed with pale yellow hairs and beset with black bristles: chest thinly clothed with short black hairs, beset on each side and behind with black bristles, adorned with four slender indistinct piceous stripes; hind chest and breast hoary, partly clothed with yellow hairs: abdomen narrower than the chest and full twice its length, tapering from the base to the tip, clothed with yellow hairs and towards the tip with black hairs,

adorned on each side of the base with a few tufts of bright yellow hairs; hind borders of the segments and the whole of the under-side hoary; first and second segments very short; third and following segments long, but successively decreasing in length: legs black, clothed with yellow hairs and armed with black spines; shanks bright tawny, with black tips; claws black; foot-cushions dark tawny: wings slightly tawny or colourless; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers pale ferruginous. Length of the body 12 lines; of the wings 20 lines.

a. China. Presented by J. Reeves, Esq.

b. China. Presented by G. T. Lay, Esq.

#### Group IV.

*ASILUS* Philus, n. s., fem. *Niger, pilis ferrugineis vestitus, abdomine nigro-piloso apice compresso, antennis nigris, pedibus rufis nigro-variis, alis fulvis apice cinereis.*

Body black: head narrower than the chest, covered with ferruginous down, clothed behind and beneath with ferruginous hairs; clypeus armed with ferruginous bristles: eyes bronze, large; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with tawny hairs; palpi black, clothed with long black hairs: feelers black; first and second joints clothed with tawny down and beset with long black hairs; second joint much shorter than the first; third joint nearly as long as the first and the second joints, tapering from the base to the tip; bristle nearly twice the length of the third joint: chest covered with ferruginous down and clothed with ferruginous hairs: breast gray: abdomen black and clothed with black hairs, nearly linear for half the length from the base; the last four segments forming a slender tail; first and second segments very short, clothed with ferruginous hairs; third and following segments long, but successively decreasing in length: legs red, clothed with black hairs above and with tawny hairs beneath, beset with black bristles; hips, thighs at the base and especially on the upper side, knees and feet black; base of feet red; claws black; foot-cushions tawny; tips of hind shanks piceous: wings tawny, gray at the tips and thence half the length of the hind border; wing-ribs ferruginous; veins piceous; black towards the tips; poisers pale ferruginous. Length of the body 12 lines; of the wings 19 lines.

a. Silhet. From the Rev. J. Stainforth's collection.

## Group V.

*ASILUS quadratus*, Wied. *Dipt. Exot.* i. 201, 34. *Auss. Zweif.* i. 485, 90.

a. Georgia. From Mr. Abbot's collection.

b. ——— ?

*ASILUS annularis*, Wied. *Dipt. Exot.* i. 211, 49. *Auss. Zweif.* i. 491, 99. *Dasypogon annularis*, Fabr. *Syst. Antl.* 171, 35.

a. Brazil. From Mr. Mornay's collection.

b. Brazil. From Mr. Children's collection.

c. Brazil. From Mr. Tucker's collection.

*ASILUS flavifasciatus*. *Trupanea flavifasciata*, Macq. *Dipt. Exot.* i. 2, 102, 26, pl. 9, f. 1.

a. Para. Presented by Gordon Graham, Esq.

b. ——— ? From Mr. Children's collection.

c. ——— ?

*ASILUS Amastrus*, n. s., mas. et fem. *Fulvus*, *thorace fusco*, *vittis tribus ferrugineis*, *fem. abdomine maculis fuscis*, *antennis nigris*, *ferrugineo cinctis*, *pedibus ferrugineis*, *alis limpidis*.

Head tawny, a little narrower than the chest, clothed with tawny hairs and beneath with white hairs, beset behind the eyes with tawny bristles; there are some black hairs on the crown and on the front, and the latter has also some long yellow hairs; clypeus armed with long yellow bristles and on the hinder part with a few black hairs: eyes dark bronze, rather large; fore part nearly flat, tolerably distinct from the other part, and composed of much larger facets: lip black, clothed at the tip with pale yellow hairs; palpi black, beset with black bristles: feelers black; first and second joints clothed with a few black hairs; first joint linear, ferruginous at the tip; second joint ferruginous, about half the length of the first; third joint conical, hardly longer than the first; bristle nearly linear, as long as the second and the third joints: chest pale brown, with three narrow indistinct ferruginous stripes, clothed with very short black hairs; sides and breast dull tawny, the latter covered with hoary bloom and clothed with some mingled black and white hairs; sides of the chest furnished with some white hairs and black bristles, and with a ferruginous mark on the fore part: abdomen dark tawny or piceous, narrower and somewhat longer than the chest, tapering from the base to the tip, clothed with short black hairs and with longer white hairs,—the latter are chiefly on the hind borders of the segments and are thickest at the base; first and second segments very short; second segment arched, furnished on

each side with a long black bristle and with long hoary hairs; third and following segments long, successively decreasing in length; tip black: legs ferruginous, stout, clothed with white hairs and armed with black spines, which are longest on the feet; hips dull gray; claws black, ferruginous at the base; foot-cushions tawny: wings whitish or with a very slight tawny tinge, reaching when closed nearly to the tip of the abdomen; wing-ribs and veins tawny, the latter piceous towards the borders; poisers tawny. *Fem.*—Abdomen nearly twice the length of the chest, spindle-shaped till near the tip, where it is compressed; disks of the segments brown towards the fore borders, where they are clothed with black hairs, while the longer white hairs cover the hind borders; tip black: wings colourless; veins darker than those of the male. Length of the body 6—9½ lines; of the wings 10—14 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS Scilurus*, n. s., fem. *Fuscus, capite albo, thoracis vittis tribus nigro-fuscis, abdominis segmentis cano fasciatis, antennis nigris, pedibus piceis, tibiis ferrugineis, alis subfulvis.*

Body brown: head white, narrower than the chest, darker on the crown, where it is furnished with a few black hairs, thickly clothed behind, in front and beneath with white hairs; clypeus armed with white bristles: eyes dark bronze; fore part nearly flat, not very distinct from the other part, but with rather larger facets: lip black, shining, clothed at the tip with yellow hairs; first and second joints of the feelers black, beset with black bristles; second joint much shorter than the first: chest brown, with three indistinct dark brown stripes, clothed with short black hairs, beset on each side and behind with black bristles,—covered also on the fore border, on the front of each side and partly behind with white hairs: breast pale brown: abdomen brown, tapering from the base to the tip, clothed with long hoary hairs, much narrower than the chest and less than twice its length; hind borders of the segments hoary: segments from the third successively decreasing in length: legs piceous, clothed with white hairs and beset with black spines; shanks dark ferruginous; claws black; foot-cushions dull tawny: wings very light brown; wing-ribs piceous; veins black, piceous towards the base; poisers tawny. Length of the body 9 lines; of the wings 15 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS Geminus*, n. s., mas. et fem. *Niger, pilis flavis vestitus, abdominis fem. apice compresso tenui, antennis ferrugineis apice nigris, pedibus rufis, alis subfulvis, apicibus cinereo univittatis.*

Body black: head a little narrower than the chest, clothed thinly on the crown, more thickly behind, and most thickly beneath, with yellow hairs, beset behind the eyes with a row of black bristles; front and clypeus ferruginous, clothed with long yellow hairs: eyes black; fore part slightly convex, its facets larger than those of the other part: lip black, clothed at the tip with ferruginous hairs; palpi ferruginous, clothed with black hairs: feelers black; first and second joints ferruginous, clothed with short black hairs; second joint about half the length of the first; third joint spindle-shaped, nearly as long as the first; bristle full twice the length of the third joint: chest and breast clothed with yellow hairs; chest beset on each side and behind with black bristles: abdomen of the female a little narrower than the chest, and more than twice its length, slightly tapering from the base to rather less than two-thirds of the length; the three segments thence to the tip compressed, and forming a slender tail; segments from the middle to the hind borders clothed with short pale tawny hairs; first and second segments very short; third and following segments long, but successively decreasing in length; seventh segment longer than the sixth: abdomen of the male about twice the length of the chest, tapering from the base to the tip, which is adorned with a thick tuft of white silky hairs; segments from the third successively decreasing in length: legs red, clothed with short pale yellow hairs, and armed with black spines; claws black, red at the base; foot-cushions tawny; thighs striped with black: wings slightly tawny; a gray streak near the tip of the fore border; wing-ribs and veins piceous; poisers tawny. Length of the body  $10\frac{1}{2}$ —12 lines; of the wings 15—18 lines.

a. ———?

*ASILUS fasciatus*, var. *Fabr. Syst. Ent.* 793, 7. *Ent. Syst.* iv. 379, 13. *Wied. Dipt. Exot.* i. 208, 45. *Auss. Zweif.* i. 489, 96. *Laphria fasciata*, *Fabr. Syst. Antl.* 158, 11.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*ASILUS fraternus*, *Wied. Zool. Mag.* iii. 33, 48. *Dipt. Exot.* i. 206, 43. *Auss. Zweif.* i. 496, 106.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

b. ———?

*ASILUS limbatus*. *Trupanea limbata?* *Macq. Dipt. Exot.* i. 2, 95, 5.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**ASILUS Dorso**, n. s., fem. *Ferrugineus, thoracis vittis tribus nigris, abdomine nigro, segmentorum marginibus posticis ferrugineis, antennis nigris, articulo 2° ferrugineo, pedibus rufis, alis limpidis.*

Body ferruginous, broad, short: head narrower than the chest, clothed behind and beneath with white hairs, beset behind the eyes with a row of ferruginous bristles; front and clypeus adorned with golden down; front clothed with long yellow hairs; clypeus beset with ferruginous and black bristles: eyes dark bronze; fore part slightly convex, its facets larger than those of the other part: lip black; palpi black, clothed with tawny hairs, and beset with some black bristles: feelers black; first and second joints clothed with tawny hairs; second joint ferruginous, half the length of the first; third joint spindle-shaped, as long as the first; bristle longer than the third joint: chest thick, thinly clothed with tawny hairs, beset on each side and behind with black bristles, adorned with three broad black stripes; the hind part is also armed with ferruginous bristles: breast covered with a gray bloom: abdomen black, longer and much narrower than the chest, tapering from the base to the tip, thinly clothed with short pale yellow hairs; hind borders of the segments ferruginous; first and second segments very short; third and following segments long, but successively decreasing in length: legs red, thinly clothed with short pale yellow hairs, armed with black spines; claws black; foot-cushions dull tawny: wings colourless; wing-ribs ferruginous; veins piceous; poisers tawny. Length of the body 11 lines; of the wings 18 lines.

a. South Africa. Presented by Dr. A. Smith.

## Group VI.

**ASILUS Antiphon**, n. s., fem. *Fulvo-cinereus, capite albo, thoracis lateribus scutello pectoreque canis, abdomine cinereo apice albo subtus cano, antennis pedibusque nigris, alis subfuscis.*

Head grayish tawny, narrower than the chest, white, and clothed with white hairs behind and beneath, furnished with a few black hairs on the crown, beset with black bristles behind the eyes; front and clypeus adorned with silky yellowish white down, the former beset with a few long white hairs, the latter armed with some long pale yellow bristles: eyes bronze; fore part flat, distinct from the other part, and composed of large facets: lip black, shining, clothed at the base with long, and at the tip with short pale yellow hairs; tongue ferruginous: first and second joints of the feelers



black, clothed with short black bristles; second joint about half the length of the first: chest dark gray, with a tawny tinge, grayish tawny towards the sides, which, like the breast and the hind chest, are hoary; sides and hind part of the chest beset with black bristles: abdomen gray, hoary beneath, tapering from the base to the tip, thinly clothed with short white hairs, and with a tuft of long white hairs on each side of the base, narrower than the chest, and about twice its length; segments from the third to the fifth successively decreasing in length; sixth and following segments of nearly equal size; ninth segment long, slender, black, shining: legs black, clothed with pale yellow hairs, and beset with some black bristles, which are most frequent on the feet; claws black; foot-cushions ferruginous: wings pale brown; wing-ribs ferruginous; veins black, piceous towards the base; poisers tawny. Length of the body 12 lines; of the wings 18 lines.

a. ——— ?

#### Group VII. ERAX, *Macquart*.

*ASILUS macrolabis*, *Wied. Auss. Zweif.* i. 458, 51.

a. Georgia. From Mr. Abbot's collection.

*ASILUS labidophorus*, *Wied. Auss. Zweif.* i. 459, 52. *Erax labidophorus*, *Macq. Dipt. Exot.* i. 2, 110, 7.

a. Brazil.

In one example of this species the vein between the submarginal areolets has a fork at its base in one wing, but not in the other.

*ASILUS æstuans*, *Linn. Syst. Nat.* ii. 1007, 5. *Amæn Acad.* vi. 413, 95. *Fabr. Syst. Ent.* iv. 379, 8. *Ent. Syst.* iv. 379, 14. *Wied. Dipt. Exot.* i. 200, 32. *Auss. Zweif.* i. 467, 63. *Dasy-pogon æstuans*, *Fabr. Syst. Anth.* 164, 2. *Erax æstuans*, *Macq. Dipt. Exot.* i. 2, 115, 19.

a. Delaware. Presented by E. Doubleday, Esq.

*ASILUS niger*, *Wied. Dipt. Exot.* i. 196, 26. *Auss. Zweif.* i. 460, 53.

a. Georgia. From Mr. Abbot's collection.

*ASILUS fuscus*, *Wied. Auss. Zweif.* i. 465, 59. *Erax fuscus*, *Macq. Dipt. Exot.* i. 2, 112, 11.

a. Brazil. From Mr. Mornay's collection.

*ASILUS femoratus.* *Erax femoratus*, *Macq. Dipt. Exot.* i. 2, 115, 20.

a. Georgia. From Mr. Abbot's collection.

b. ——— ?

In two insects of this species the vein between the submarginal areolets is double at its base in one wing.

*ASILUS rufibarbis.* *Erax rufibarbis*, *Macq. Dipt. Exot.* i. 2, 116, 22.

a. ——— ?

*ASILUS stylatus*, *Fabr. Syst. Ent.* iv. 795, 19. *Ent. Syst.* iv. 384, 38. *Wied. Dipt. Exot.* i. 198, 30. *Auss. Zweif.* i. 462, 57. *Dasypogon stylatus*, *Fabr. Syst. Antl.* 171, 31.

a. ——— ? From Mr. Children's collection.

b. ——— ?

*ASILUS Sicyon*, n. s., fem. *Niger, thoracis lateribus pectoreque ferrugineo variis, antennis rufis apice nigris, pedibus nigris, alis limpidis.*

Body black, covered with a gray bloom: head much narrower than the chest, clothed behind and beneath with tawny hairs, beset behind the eyes with black bristles; crown covered with a few tawny hairs, beset on each side with some black bristles; front beset with pale yellow hairs and black bristles; clypeus armed with long tawny bristles, and in front with black spines: eyes black; fore part slightly convex, its facets not much larger than those of the other part: lip black, clothed at the tip with pale yellow hairs; palpi black, beset with black bristles: feelers black; first and second joints red, beset with a few black hairs; second joint about half the length of the first; third joint spindle-shaped, as long as the first, red at the base; bristle longer than the third joint: ridge of the neck beset with black bristles: chest thinly clothed with short black hairs, beset on each side and behind with some black bristles; sides and breast partly ferruginous, and furnished with a few pale yellow hairs: abdomen much narrower than the chest and about twice its length, tapering from the base to the tip; first and second segments very short; third and following segments long, but successively decreasing in length: legs black, covered with a hoary bloom, clothed with whitish hairs, armed with black spines; foot-cushions tawny: wings colourless, reaching when closed almost to the tip of the abdomen; wing-ribs and veins piceous; poisers tawny, with piceous knobs. Length of the body 9 lines; of the wings 14 lines.

a. Brazil.

*ASILUS flavo-fasciatus*, Wied. Auss. Zweif. i. 470, 68.

a. Honduras. From Mr. Miller's collection.

b. ——— ?

*ASILUS lascivus*? Wied. Auss. Zweif. i. 474, 75.

a. Honduras. From Mr. Miller's collection.

*ASILUS Amarynceus*, n. s., fem. *Niger, cinereo pubescens, abdominis lateribus ferrugineo vittatis, apice compresso, ventre cano, antennis pedibusque nigris, tibiis fulvis, alis limpidis.*

Body black, covered with a gray bloom: head as broad as the chest, clothed behind and more thickly beneath with white hairs, beset behind the eyes with a row of black bristles, covered with black hairs on each side of the crown; clypeus very prominent, beset with black bristles, clothed also in front with long whitish hairs: eyes black; fore part flat, its facets very large, the outline between them and the other part unusually distinct: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs and bristles: feelers black; first and second joints beset with black hairs; second joint slightly club-shaped, about half the length of the first; third joint spindle-shaped, shorter than the first; bristle about twice the length of the third joint: chest clothed with short black hairs, beset with black bristles on each side, and behind where it is also covered with some long hoary hairs: breast partly clothed with a few hoary hairs: abdomen narrower than the chest and nearly thrice its length, slightly tapering from the base to nearly two-thirds of the length, thence to the tip compressed and very slender, clothed with short whitish hairs; a ferruginous stripe along each side; underside hoary, clothed with longer whitish hairs; first and second segments very short; second segment arched, clothed with long white hairs, and armed with three black bristles on each side; third and following segments long, but successively decreasing in length: legs black, clothed with black hairs, and armed with black spines; shanks tawny, with black tips, clothed beneath like the feet with tawny down; foot-cushions tawny: wings colourless; wing-ribs piceous; veins black; poisers ferruginous. Length of the body  $8\frac{1}{2}$  lines; of the wings 12 lines.

a. ——— ?

*ASILUS senilis*, Wied. Auss. Zweif. i. 471, 70.

*ASILUS* Dascyllus, n. s. *Fuscus, pectore cinereo, antennis nigris, pedibus piceis, tibiis ferrugineis apice piceis, alis albidis.*

Body brown: head covered with hoary bloom, a little narrower than the chest, thickly clothed beneath with very long golden hairs; hind part thinly clothed with short white hairs, and beset with black and tawny bristles; crown beset on each side with black bristles; clypeus large, prominent, very thickly clothed with long golden hairs, and beset in front with a few black bristles: eyes dark bronze; fore part slightly convex, its facets larger than those of the other part: lip black, clothed at the tip with short pale yellow hairs; palpi black, beset with black bristles: feelers black: first and second joints beset with short black bristles; second joint not half the length of the first; third joint elliptical, shorter than the first: chest thinly clothed with short black hairs, beset on each side and behind with some black bristles: breast tinged with gray, partly clothed with long hoary hairs: legs piceous, clothed with long yellow hairs, armed with black spines, which are very thick on the feet; shanks ferruginous, piceous towards the tips; claws black; foot-cushions tawny; shanks and feet covered beneath with pale ferruginous down: wings whitish; wing-ribs and fore border veins ferruginous; the other veins piceous. Length of the body 8? lines; of the wings 12 lines.

a. Massachusetts. From Prof. Sheppard's collection.

*ASILUS* virilis? *Wied. Auss. Zweif. i. 468, 65. Erax virilis, Macq. Dipt. Exot. i. 2, 113, 14.*

a. ———?

*ASILUS* obscurus. *Erax obscurus? Macq. Dipt. Exot. i. 2, 112, 12.*

a. Para. Presented by J. P. George Smith, Esq.

*ASILUS* Bastardi? *Macq. Dipt. Exot. i. 2, 117, 25, pl. 9, f. 7.*

a. Brazil.

*ASILUS* Bardyllis, n. s., fem. *Ferrugineus, thoracis vittis quatuor nigris, abdomine nigro, segmentorum marginibus posticis fulvis, antennis pedibusque nigris, tibiis alisque fulvis,*

*Fem.*—Head piceous, as broad as the chest, mostly covered with ferruginous down above, and with pale yellow down beneath, clothed with bright yellow hairs behind and beneath, beset behind the eyes with black bristles; tubercle of the eyelets armed with two black bristles; crown covered with black hairs on each side; front and clypeus adorned with pale golden down, the latter very prominent, beset with yellow hairs and black bristles: eyes dark bronze; fore part slightly

convex, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs: feelers black; first and second joints covered with a gray bloom and clothed with black hairs; second joint about half the length of the first; third joint of the feelers tapering from the base to the tip, about three-fourths of the length of the first; bristle much longer than all the preceding joints: chest and breast covered with ferruginous down; chest thinly clothed with short black hairs, beset on each side and behind with black bristles, adorned with four black stripes, of which the middle pair are long and straight, the side pair are shorter, broader, slightly curved, and each interrupted by an oblique band: abdomen black, narrower than the chest, and more than twice its length, tapering from the base to two-thirds of its length, compressed, linear, and like a tail from thence to its tip, very thinly clothed with tawny hairs, and also towards the tip with black hairs; sides and hind borders of the segments dark tawny; compressed segments black, shining, hairless: legs black, clothed with black hairs, beset with black spines; shanks bright tawny, clothed with tawny hairs, their tips black; claws black; foot-cushions tawny: wings tawny; wing-ribs and veins piceous; poisers pale ferruginous. Length of the body 12 lines; of the wings 17 lines.

a. Brazil. From Mrs. Mornay's collection.

b. ——— ?

ASILUS Leon, n. s., mas. *Cinereus, thorace flavo vittis quatuor nigris, pectore albo, abdominis fasciis canis, antennis nigris, pedibus rufis, femoribus nigro-vittatis, tibiis apice tarsisque nigris, alis subfulvis apice cinereis.*

Body hoary: head narrower than the chest, clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; sides of the crown covered with black hairs; front clothed with black hairs; clypeus armed with long slender yellowish white bristles: eyes dark bronze; fore part nearly flat, composed of large facets: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black bristles: feelers black; first and second joints beset with stout black hairs; second joint a little shorter than the first: ridge of the fore chest clothed with white hairs and beset with black bristles: chest yellow, thinly clothed with black hairs, and also on each side with a few white hairs, adorned with four broad black stripes, beset on each side and behind with some black bristles; breast and sides of the chest white, partly clothed with white hairs: abdomen gray, narrower than the chest, and rather more than twice its length, very slightly tapering from the base to

the tip, clothed with white hairs, which are most frequent at the base; sides and hind borders of the segments and the whole of the underside hoary; first and second segments very short; third and following segments long, successively decreasing in length; sexual parts black, shining, very large: legs bright red, clothed with pale yellow hairs, armed with black spines; hips hoary; thighs striped with black; knees and tips of the shanks black; feet black, thickly clothed beneath with ferruginous down; claws black, red towards the base; foot-cushions tawny: wings light tawny, white along the fore borders, till near the tips, which are gray; wing-ribs piceous; veins black; poisers tawny. Length of the body 14 lines; of the wings 22 lines.

a. ———? From Mr. Children's collection.

*ASILUS* Lades, n. s., fem. *Niger, thoracis vittis quatuor ferrugineis, abdomine cano maculis nigris, apice compresso nigro nitente, antennis pedibusque nigris, alis fuscis.*

Body black: head a little narrower than the chest, clothed behind and beneath with pale yellow hairs, beset behind the eyes with black bristles; crown thinly covered with black hairs; clypeus very prominent, thickly armed with black bristles and long pale yellow hairs: eyes black; fore part slightly convex, its facets very much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with black hairs and bristles; first and second joints of the feelers black, beset with short stout black hairs; second joint about half the length of the first: chest black, thinly clothed with black hairs, beset on each side and behind with a few black bristles, adorned with four dark ferruginous stripes, the two on each side joined together by an oblique band: breast very dark ferruginous, partly clothed with black hairs: abdomen hoary, much narrower than the chest, and more than twice its length, slightly tapering, and clothed with hoary hairs from the base to near two-thirds of the length, and thence for a short space clothed with black hairs, lastly black, shining, compressed, and very slender to the tip; each segment of the back is also black, with the exception of its sides and of its hind border; first and second segments very short; second segment arched, armed with a row of black bristles; third and following segments long, successively decreasing in length: legs black, clothed with black hairs, armed with black spines; foot-cushions dark tawny: wings brown, reaching when closed, to about two-thirds of the length of the abdomen; wing-ribs and veins black; poisers tawny, with piceous knobs. Length of the body 12½ lines; of the wings 16 lines.

a. Brazil. From Mr. Mornay's collection.

*ASILUS* Caudex, n. s., mas. et fem. *Niger, thorace fulvo, vittis quatuor nigris, pectore cano, abdominis lateribus, mari. fulvo-albo vittatis, fem. abdomine cano bivittato apice compresso, antennis pedibusque nigris, alis fuscis.*

*Male.* — Body black: head very nearly as broad as the chest, covered with tawny down, thickly clothed beneath with white hairs; hind part clothed with a few whitish hairs, and beset with a row of black bristles; crown beset with some black hairs; clypeus prominent, thickly armed with black bristles, and in front clothed also with some whitish hairs: eyes dark bronze; fore part flat, its facets much larger than those of the other part: lip black, shining, clothed at the tip with short hoary hairs; palpi black, thickly beset with long black bristles: feelers black; first and second joints clothed with black hairs; second joint not near half the length of the first; third joint spindle-shaped, much shorter than the first; bristle nearly thrice the length of the third joint: chest tawny, clothed with black hairs, beset on each side and behind with some black bristles, adorned with four black stripes; middle stripes narrow and linear; side stripes broad, especially on the hind part, each interrupted by three oblique tawny bands: breast hoary, partly clothed with black or hoary hairs: abdomen black, narrower than the chest, and rather more than twice its length, hoary beneath, tapering from the base to the tip, clothed with whitish hairs, which decrease in length from the base to the tip; each side adorned with a tawny stripe, which changes to white on the sixth segment; seventh and eighth segments silvery: first and second segments very short; second segment arched, beset with black bristles on each side; third and following segments long, successively, but slightly decreasing in length; sexual parts shining, very large: legs black, clothed with black hairs, beset with black spines; foot-cushions dark tawny: wings brown, darker towards the base; wing-ribs and veins black; poisers tawny. *Fem.* — Abdomen much more than twice the length of the chest, compressed and very slender for one-third of its length from the tip; side stripes hoary along the whole length. Length of the body 9—11 lines; of the wings 12—14 lines.

a. Jamaica. From Mr. Gosse's collection.

*ASILUS* Marcinus, n. s., fem. *Ferrugineus, thoracis vittis tribus piceis, abdomine nigro cinereo-bivittato, apice compresso tenui, segmentorum marginibus posticis ferrugineis, antennis pedibusque nigris, alis fuscis.*

Head black, as broad as the chest, covered with dark tawny down, clothed with black hairs on the crown, behind and beneath, beset behind the eyes with black bristles; clypeus very prominent,

thickly beset with black bristles : eyes bronze ; fore part nearly flat, its facets much larger than those of the other part : lip black, clothed at the tip with short pale yellow hairs ; palpi black, beset with long black hairs : feelers black ; first and second joints clothed with short black hairs ; second joint not half the length of the first : chest ferruginous, clothed with black hairs, beset on each side and behind with black bristles, adorned with three broad piceous stripes : breast grayish ferruginous : abdomen black, much more than twice the length of the chest, thinly clothed with black hairs, tapering from the base to rather more than two-thirds of the length, thence to the tip compressed and very slender ; a hoary stripe on each side ; hind borders of the segments dark ferruginous ; first and second segments short ; hind border of the second segment pale tawny ; third and following segments long, but successively decreasing in length : legs black, clothed with black hairs, beset with black spines ; shanks and feet covered beneath with dark ferruginous down ; claws dark ferruginous at the base ; foot-cushions pale tawny : wings brown ; wing-ribs and veins black ; poisers ferruginous. Length of the body 10 lines ; of the wings 14 lines.

a. ———?

*ASILUS Halcesus*, n. s., mas. *Fuscus, thorace fulvo vittis quatuor fuscis, pectore abdominis segmentorum marginibus posticis ventrequae cinereis, apice albo, antennis nigris, pedibus rufis, nigro variis, alis subfulvis.*

Body brown : head nearly as broad as the chest, covered with tawny down, clothed behind and beneath with whitish hairs ; crown beset with a few whitish hairs on each side ; clypeus prominent, thickly armed with black bristles and whitish hairs : eyes dark bronze ; fore part slightly convex, its facets larger than those of the other part : lip black, clothed at the tip with short tawny hairs ; palpi black, clothed with white hairs : feelers black ; first and second joints beset with short stout black hairs ; second joint about half the length of the first ; third joint spindle-shaped, as long as the first ; bristle about twice the length of the third joint : chest dark tawny, clothed with short black hairs, beset on each side and behind with some black bristles, adorned with four dark brown stripes, of which the side pair are shorter and broader than the middle pair, and are each interrupted by two short oblique bands : breast gray : abdomen brown, much narrower than the chest, and more than twice its length, slightly tapering from the base to the tip, clothed with hoary hairs, which are most frequent at the base ; sides and hind borders of the segments and the whole of the underside hoary ; two last segments white ; sexual parts large, piceous,



shining: legs red, clothed with whitish hairs, and armed with black spines; hips gray; thighs partly, knees, feet, and tips of shanks black; claws black, red at the base; foot-cushions tawny: wings with a slight tawny tinge; wing-ribs ferruginous; veins black, piceous towards the base; poisers tawny. Length of the body 8 lines; of the wings 11 lines.

a. Jamaica.

*ASILUS* *Amphissa*, n. s., mas. et fem. *Fuscus, thorace fulvo vittis tribus fuscis, metathorace pectoreque canis, mari. abdomine cinereo, vittâ postica fulva, apice nigro, fem. abdomine fulvo, antennis pedibusque nigris, alis subfuscis apice obscurioribus.*

Body brown: head as broad as the crown, clothed with tawny down, beset with black bristles behind, and clothed there and beneath with very pale yellow hairs; crown covered with brownish tawny down, and furnished with some black hairs; clypeus armed with long black bristles behind, and with long bright yellow bristles in front: eyes black; fore part flat, distinct from the other part, and composed of much larger facets: lip black, shining, clothed at the base with long, and at the tip with very short yellow hairs: feelers black; first and second joints beset with short black bristles; second joint about half the length of the first; third joint tapering from the base to the tip, a little longer than the first; fourth and fifth joints like a bristle, much longer than the third: chest dark tawny, furnished with three rows of black hairs, beset on each side and behind with black bristles, adorned with three broad brown stripes, of which the side pair are short and irregular, the middle one includes a paler stripe, and is joined by two oblique bands with the side stripes; sides, hind chest and breast hoary, the latter clothed with white hairs: abdomen gray, clothed with white hairs, decreasing in breadth from the base to the tip, much narrower than the chest and about twice its length; third, fourth, and fifth segments long, successively decreasing in length; sixth, seventh, and eighth segments tawny, much shorter; ninth segment large, smooth, shining, black, covered with some black hairs, ferruginous at the base and beneath: legs black, clothed with short yellow hairs; hips gray, clothed with white hairs; thighs rather thick; fore thighs beset with black bristles; hind thighs beset with black spines; middle thighs armed with some stouter black spines; shanks ferruginous, with black tips, each with a black stripe, which is smallest on the fore shanks; fore and middle feet ferruginous at the base; claws black; foot-cushions yellow: wings light brown, darker at the tips; wing-ribs ferruginous; veins black, piceous towards the base; poisers tawny. *Female*.—Abdomen dark tawny, with a gray bloom, more than twice

the length of the chest; hind borders of the segments tawny, and clothed with hoary hairs; under-side hoary; segments from the third to the eighth successively decreasing in length; ninth segment long, slender, black, shining, forming a short tail. Length of the body 7—8 lines; of the wings 12 lines.

a. Brazil.

*ASILUS* Turinus, n. s., mas. et fem. *Ferrugineus, thorace piceo quadrivittato, abdomine fusco, fem. cano apice compresso nigro nitente, antennis nigris, pedibus fulvis nigro variis, alis limpidis apice cinereis.*

*Male.*—Body brown: head much narrower than the chest, covered with yellow down, clothed thinly behind and thickly beneath with long pale yellow hairs, beset behind the eyes with a row of stout black bristles; crown pale brown, beset on each side with black bristles; clypeus prominent, armed with long yellow bristles, and in front with a few more slender black bristles: eyes dark green; fore part convex, its facets larger than those of the other part: lip black, clothed at the tip with short pale yellow hairs; palpi black, clothed with long yellow hairs: feelers black; first and second joints covered with a brown bloom, beset with short black bristles; second joint much shorter than the first: chest light ferruginous, clothed with very short black hairs, beset on each side and behind with black bristles, adorned with four piceous stripes, the middle pair straight and narrow, the side pair broader, and each of them interrupted by two oblique brown bands; scutcheon, hind chest, and breast hoary, partly clothed with whitish hairs: abdomen narrower than the chest, and rather more than twice its length, tapering from the base to the tip, thinly clothed with short pale yellow hairs; hind borders and sides of the segments tawny; first and second segments very short; second segment arched, clothed on each side with some long pale yellow hairs, and armed there with three white spines; third and following segments long, successively decreasing in length to the tip; third segment dotted with three cross rows of punctures, armed on each side with two white spines about the middle, and with two more on the hind borders; fourth and fifth segments armed with two white spines on each side of their hind borders; sixth and following segments brown; each side of the sixth segment armed with one white spine; under-side gray: legs dark tawny, clothed with short pale yellow hairs, armed with black spines; thighs and tips of shanks black on the outer side; under-side of the shanks and of the feet covered with tawny down: feet black, tawny towards the base: foot-cushions pale ferruginous; a black streak on each shank: wings colourless, gray towards the tips; wing-ribs piceous; veins

black ; poisers yellow. *Fem.*—Abdomen hoary along each side and on the hind borders of the segments, black and shining at the tip, which is pointed and compressed : legs black ; shanks sometimes very dark ferruginous till near the tips : wings reaching when closed a little beyond the tip of the abdomen. Length of the body 10—11 lines ; of the wings 15—16 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*ASILUS* Antidomus, n. s., mas. *Niger, abdomine fulvo, antennis pedibusque nigris, tibiis ferrugineis, alis fuscis.*

Body stout, black : head narrower than the chest, thickly clothed beneath with white hairs, beset behind the eyes with a row of black bristles ; sides of the crown and front covered with some black hairs ; front and clypeus ferruginous ; clypeus thickly beset with black bristles, and having also in the front some more slender white bristles : eyes dark bronze, rather large, fore part nearly flat, its facets but little larger than those elsewhere on the eye : lip black, very stout, thickly clothed with hairs, which are long and white towards its base, but short and tawny towards its tip : first and second joints of the feelers black, clothed with short black bristles ; second joint about half the length of the first : chest and breast deep velvet-like black, partly clothed with short black hairs ; sides and hind part of the chest beset with some black bristles : abdomen tawny, and clothed with tawny hairs, much narrower than the chest, and less than twice its length, becoming much narrower at one half of its length, and thence tapering slightly to the tip ; sides of the segments thickly clothed with long hairs from the first to the fourth, but thinly clothed with short hairs from thence to the tip : first and second segments short ; third segment long ; fourth segment a little shorter and narrower than the third ; fifth segment much narrower and a little shorter than the fourth ; sixth segment shorter and narrower than the fifth ; seventh segment nearly as long and as broad as the sixth ; eighth segment a little longer and narrower than the seventh ; ninth segment very short : appendages large, piceous, shining : legs black, clothed with short black hairs ; shanks dark ferruginous ; claws black ; foot-cushions piceous : wings dark brown ; wing-ribs piceous ; veins black ; poisers piceous. Length of the body 14 lines ; of the wings 22 lines.

a. Brazil.

Var. *β*.? Lip partly red ; palpi red, clothed with very pale yellow hairs, and beset with black bristles : first and second joints of the feelers red ; third joint piceous, spindle-shaped, nearly as long as the first ; bristle black, nearly twice the length of the first joint :

chest brown, dark tawny on each side, and indistinctly striped with the same colour: scutcheon beset with some tawny bristles; breast tinged with gray, partly clothed with tawny hairs: abdomen tawny, red towards the tip, which is dark red, tapering from the base to half its length, linear thence to the tip, narrower than the chest, and nearly twice its length, bronze on the disk towards the base; segments from the second to the fifth thickly clothed with yellow hairs on each side.

a. ——— ?

### Group VIII. PROTACANTHUS, *Macquart*.

*ASILUS rufiventris*. *Protacanthus rufiventris*, *Macq. Dipt. Exot. i.* 2, 123, 5, *pl. 10, f. 2.*

a. Honduras. From Mr. Miller's collection.

*ASILUS Coprates*, n. s., mas. *Niger, thorace cinereo vittis quinque fuscis, pectore cano, abdomine rufo pilis flavis vestito, pedibus rufis, alis limpidis apice fulvis.*

Body black: head nearly as broad as the chest, covered with pale yellow down, clothed behind the head with yellow hairs and black bristles, more thickly clothed beneath with long whitish hairs; crown beset with some yellow hairs; front and clypeus ferruginous; front clothed with long pale yellow hairs; clypeus armed with long pale bristles: eyes large, black; fore part slightly convex, its facets rather larger than those of the other part: lip black, clothed at the tip with short tawny hairs: palpi black, clothed with long black bristles: chest gray, clothed with very short black hairs, beset on each side and behind with black bristles, adorned with five pale indistinct brown stripes; scutcheon beset with yellow and black bristles: breast hoary, partly clothed with pale yellow hairs: abdomen red, tapering from the base to the tip, a little narrower than the chest and nearly twice its length, clothed with yellow hairs, which are long and thick towards the base, but short and thin elsewhere; first and second segments black, very short; second segment arched, with a tuft of yellow bristles on each side; third and following segments long, but successively decreasing in length; sexual parts red, of moderate size: legs dark red, clothed with short black hairs armed with black spines; hips gray, clothed with whitish hairs; shanks darker towards the tip; knees and claws black; foot-cushions tawny; shanks towards the tips and feet at the base covered beneath with tawny down: wings colourless, tawny towards

the tips; wing-ribs ferruginous; veins black; poisers tawny. Length of the body 11 lines; of the wings 18 lines.

a. ———? From Mr. Children's collection.

### Group IX.

*ASILUS* Herminius, n. s., fem. *Ferrugineus, abdominis segmentorum marginibus posticis fulvis apice piceo, antennis nigris, pedibus fulvis, femoribus anterioribus ferrugineis nigro vittatis, alis fulvis apice fuscis.*

Body ferruginous: head much narrower than the chest, clothed behind and beneath with yellow hairs, beset behind the eyes with tawny bristles; front and clypeus adorned with golden down; clypeus armed with a thick cluster of yellow bristles: eyes black, rather small; fore part convex, its facets not larger than those of the other part: lip black, shining, clothed at the tip with short tawny hairs; tongue yellow; palpi black, beset with black hairs: feelers black; first and second joints red, beset with some short black hairs; second joint slightly club-shaped, a little more than half the length of the first; third joint very long, slender, slightly tapering from the base to the tip, more than twice the length of the first and of the second; fourth and fifth joints like a short spine, which is about one-fifth of the length of the third: chest thinly clothed with very short black hairs, beset on each side and behind with a few black bristles: breast clothed here and there with tawny hairs: abdomen thrice the length of the chest, slender, very slightly tapering from the base to the tip, thinly clothed with very short black hairs, shining towards the tip, which is piceous; hind border of every segment tawny, and especially so on each side; first and second segments very short; third and following segments long, but successively, though slightly decreasing in length: legs tawny, thickly clothed with tawny down, armed with a few black spines; feet thickly armed beneath with short black spines, and at the tips with two long curved spines; claws black, tawny at the base; foot-cushions tawny; four front thighs ferruginous, striped with black: wings deep tawny, brown towards the tips and along the hind borders, reaching when closed, nearly to two-thirds of the length of the abdomen; borders of the veins paler; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers yellow. Length of the body 14 lines; of the wings 17 lines.

a. Massachusetts. From Prof. Sheppard's collection.

## Group X. LOPHONOTUS, Macquart.

*ASILUS* Androclea, n. s., mas. *Fuscus, abdominis apice nigro, segmentorum marginibus posticis basi canis apice fulvis, antennis nigris, pedibus piceis, tibiis ferrugineis basi fulvis, tarsis obscure ferrugineis apice piceis, alis subcinereis.*

Body dark brown, stout, very hairy; head nearly as broad as the chest, thickly clothed beneath with white hairs, furnished on the crown with some black hairs, and behind with some black bristles; front thickly clothed with long black hairs; clypeus thickly beset with long white hairs: eyes dark bronze; fore part flat, distinct from the other part, and with rather larger facets: lip and palpi black, the latter beset with black bristles: first and second joints of the feelers black, thickly beset with black bristles; second joint cup-shaped, about half the length of the first: chest clothed with black hairs and bristles; sides paler; breast still paler, and thinly covered with tawny hairs: abdomen tapering from the base to the tip, much narrower and longer than the chest, but not twice its length, clothed at the base with long hoary hairs, beyond with tawny hairs, and at the black tip with black hairs; the sides and hind borders of the segments are hoary at the base of the abdomen, but become tawny towards the tip; segments from the third successively decreasing in length: legs piceous, very hairy; hips clothed with long hoary hairs; thighs clothed with tawny hairs and beset with black spines; shanks dark ferruginous, pale tawny at the base, clothed with short and with very long tawny and whitish hairs, the long hairs are most abundant; the shanks are also beset with some black hairs and long black bristles; feet dark ferruginous, with piceous tips, beset with white hairs and black bristles; claws black; foot-cushions dull tawny: wings tinged with gray, almost colourless towards the base; wing-ribs ferruginous; veins black, piceous towards the base; poisers tawny. Length of the body 8 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS* pellitus, *Wied. Zool. Mag*, iii. 34, 49. *Dipt. Exot.* i. 188, 10. *Auss. Zweif.* i. 440, 23.

a. South Africa.

*ASILUS* suillus, *Wied. Dipt. Exot.* i. 189, 11. *Auss. Zweif.* i. 441, 24. *Dasypogon suillus*, *Fabr. Syst. Antl.* 168, 19.

a. South Africa.

*ASILUS* molitor, *Wied. Auss. Zweif.* i. 450, 38.

a. South Africa.

**ASILUS** Ladon, n. s., fem. *Fuscus, thoracis vittis tribus pectoreque cinereis, abdomine subcompresso dorso carinato, antennis pedibusque nigris, alis subfulvis.*

Body brown: head much narrower than the chest, covered with white down, clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; sides of the crown and tubercle of the eyelets covered with black hairs; sides of the crown, front, and clypeus covered with tawny down; clypeus thickly beset with white bristles, and also armed with a few black hairs and bristles: eyes reddish bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short pale yellow hairs: feelers black; first and second joints clothed with pale yellow hairs; first joint armed with long black bristles; second joint club-shaped, much shorter than the first; third joint spindle-shaped, rather slender, a little shorter than the first and the second; fifth joint stout, and not like a bristle, tapering from the base to the tip, nearly half the length of the third: chest thickly clothed with long and slender black hairs, beset on each side and behind with white bristles, adorned with three indistinct gray stripes; sides and breast also gray, partly clothed with tawny hairs; fore chest short, clothed with tawny hairs and with a row of black bristles: abdomen slightly compressed, keeled along the back, tapering from the base to the tip, narrower than the chest, and much less than twice its length, covered with dull tawny down; hind borders of the segments beset with long pale yellow bristles; first and second segments very short; third and following segments long, successively decreasing in length; tip shining, piceous: legs black, clothed with short whitish hairs and with white spines, and also armed with black spines; claws tawny towards the base; foot-cushions tawny: wings with a slight tawny tinge, reaching, when closed, to the tip of the abdomen: wing-ribs and veins piceous, the latter black towards the tips; poisers yellow. Length of the body 7 lines; of the wings 11 lines.

a. ——— ?

**ASILUS** Phœax, n. s. *Fuscus, capite aureo piloso, thorace nigro-fusco maculato et univittato, abdominis apice nigro, antennis nigris, pedibus fuscis, alis subfuscis.*

Body brown: head a little narrower than the chest, clothed with tawny hairs; crown beset with a few black hairs; clypeus and each side of the fore part most thickly covered with pale golden hairs: eyes black; fore part nearly flat, its facets not much larger than those of the other part, from which it is hardly distinct: lip black, shining, clothed at the base with long, and at the tip with

short yellow hairs: feelers black; first and second joints beset with black bristles; second joint hardly shorter than the first; third joint spindle-shaped, as long as the first and the second; fourth and fifth joints like a spine, about half the length of the third: chest varied with dark brown, which forms a stripe in the middle and some streaks and marks on each side, clothed with short black hairs; sides and hind part armed with tawny bristles, the latter also beset with some long black hairs; breast clothed with tawny hairs: abdomen tapering from the base to the tip, clothed with pale tawny hairs, much narrower than the chest, and nearly twice its length; hind borders of the segments paler; segments from the third to the sixth successively, but slightly decreasing in length; seventh segment much shorter; eighth segment a little longer; ninth segment much longer, black, shining: legs brown, clothed with yellow hairs and beset with tawny bristles; feet and tips of shanks with some short black bristles; claws black; foot-cushions brown; hind thighs armed beneath with black spines: wings very light brown; wing-ribs piceous; veins black, piceous at the base; poisers brown. Length of the body 10 lines; of the wings 14 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS cristatus*, *Hoffmansegg, Meig. Dipt. ii. 322, 24. Loew, Linn. Ent. iii. 424, 1.*

a. England.

b. South of France. Presented by the Entomological Club.

### Group XI.

The subdivision required by this group is deferred until Professor Loew's descriptions of the European Asili are completed.

*ASILUS plicatus*, *Leach, MSS. Wied. Auss. Zweif. ii. 643, 61, fem. Cinereo-fulvus, pilis canis vestitus, thorace vittis quatuor cinereis, pedibus rufis, femoribus basi tibiis apice tarsisque rufis, alis sub-fuscis.*

Body pale grayish tawny: head narrower than the chest, thickly clothed, and especially on the under-side, with hoary hairs, beset behind the eyes with a few black bristles; tubercle of the eye-lets and each side of the crown beset with black bristles; clypeus thickly armed with black bristles behind, and with much longer pale yellow bristles in front: eyes bronze-black; fore part flat, its facets rather large, but decreasing in size, and rather blending with those of the other part, from which, however, they are tolerably distinct: lip black, short, stout, clothed at the tip with short pale yellow hairs:



feelers black; first and second joints linear, beset with black bristles; second joint narrower than the first, and about half its length; third joint spindle-shaped, clothed with a few black hairs, nearly as long as the first; fourth joint or bristle longer than the first: chest and breast ferruginous, covered with hoary bloom: chest with four gray stripes, the middle pair narrow and straight; the outer pair shorter and broader, and each divided by an oblique ferruginous band along the suture; the fore border and the sides are clothed with hoary hairs, and the latter are beset with a few black bristles: breast more thickly clothed with hoary hairs: abdomen convex, tapering from the base to the tip, much narrower than the chest, and about twice its length, clothed with hairs which are short on the back, but longer on each side; under-side hoary and clothed with hoary hairs; first segment extremely short; second segment short; third segment long; fourth and following segments to the ninth successively, but hardly perceptibly decreasing in length; eighth and ninth segments black; eighth segment beset with some black bristles; ninth segment shining: legs red; hips and trochanters black, clothed with long hoary hairs; thighs black at the base, clothed with hoary hairs, and armed with black spines; shanks black at the tips, clothed with short hoary hairs, beset with black spines; feet black, clothed with black hairs, and thickly armed with black spines; claws black, red at the base; foot-cushions pale tawny: wings light brown, gray along the fore border from the middle to the tip; wing-ribs and veins ferruginous; poisers tawny. Length of the body 15—18 lines; of the wings 26—28 lines.

- a. New Holland. Presented by the Linnean Society.
- b. New Holland. Presented by J. Hunter, Esq.
- c. New Holland. Presented by the Earl of Derby.
- d. ——— ?

The wings of the male are widened by means of the fore border, which is convex beyond the middle.

*ASILUS heros*, Wied. *Auss. Zweif.* i. 427, 4.

- a. Georgia ?

*ASILUS* Antiorus, n. s., mas. *Cinereo-fulvus, thoracis vittis quatuor fuscis, abdomine fusco, antennis nigris, pedibus rufis, femoribus piceis, alis fulvis.*

Head much narrower than the chest, covered with dull yellowish white down, clothed behind and beneath with long white hairs, beset behind the eyes with a row of black bristles; crown brown, its sides clothed with long yellow hairs and beset with black bristles

tubercle of the eyelets armed with black bristles; front and clypeus thickly clothed with long pale yellow hairs; clypeus prominent, armed also with long black and pale yellow bristles: eyes black; fore part slightly convex, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long whitish hairs: feelers black; first and second joints beset with short black bristles; first joint also clothed with short whitish hairs; second joint about half the length of the first; third joint spindle-shaped, longer than the first; bristle nearly twice the length of the third joint: chest and breast grayish tawny: chest clothed with very short black hairs, beset on each side and behind with black bristles, tawny on the disk, adorned with four brown stripes; middle pair of stripes narrow, linear; side pair broader, irregular, interrupted: sides of the chest and hind chest with a hoary tinge: abdomen brown, narrower than the chest, and more than twice its length, tapering from the base to the tip, clothed with short tawny hairs, which on each side towards the base are replaced by longer and more numerous hairs; first and second segments very short; second segment arched, armed on each side with black bristles; third and following segments long, successively decreasing in length, clothed on the hind borders with short black hairs; sexual parts dark red, shining: legs dark red, clothed with short tawny hairs, armed with black spines; hips and thighs piceous, the former, and especially the fore pair, clothed with tawny hairs; claws black; foot-cushions dark tawny: wings dark tawny; disks of the areolets almost colourless; wing-ribs, veins and poisers piceous. Length of the body 16—17 lines; of the wings 24—25 lines.

*a.* ——— ?

*ASILUS Corymeta*, n. s., mas. et fem. Mas. *Fuscus, thoracis vittis tribus pallidioribus, pectore cinereo, abdominis apice ferrugineo, antennis nigris apice piceis, pedibus rufis, femoribus piceis, alis fusco-fulvis*. Fem. *Thoracis vittis ferrugineis, abdominis apice nigro nitente*.

*Male*.—Head narrower than the chest, covered with pale yellow down, thickly clothed behind and beneath with pale yellow hairs, beset behind the eyes with a row of black bristles; tubercle of the eyelets armed with a cluster of black bristles; crown pale brown, clothed on each side with pale yellow hairs and black bristles; clypeus prominent, very thickly beset with pale yellow bristles, and also armed with two or three black bristles in the front: eyes dark bronze; fore part flat, very distinct from the other part, and composed of much larger facets: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long pale yellow hairs: first and

second joints of the feelers black, beset with short black bristles; second joint nearly half the length of the first; third joint spindle-shaped, piceous, a little shorter than the first; bristle twice the length of the third joint: fore chest dark tawny, clothed with long whitish hairs, armed with a row of black bristles: chest dark brown, clothed with very short black hairs, beset on each side, and especially behind, with black bristles, clothed also on the hind part with some whitish hairs, adorned with three narrow pale brown stripes; sides pale brown: hind chest and breast tinged with gray: abdomen brown, narrower than the chest, and much more than twice its length, tapering from the base to the tip, ferruginous towards the tip, clothed with short tawny hairs, but towards the base with longer and paler hairs; first and second segments very short; second segment arched, beset like the third with black bristles on each side; third and following segments long: legs dark red, clothed with short black hairs, armed with black spines; hips clothed with long pale yellow hairs; thighs piceous; claws black; foot-cushions tawny: wings brownish tawny; wing-ribs ferruginous; veins piceous; poisers dark tawny. *Fem.*—Clypeus armed with several black bristles: stripes and sides of the chest ferruginous: abdomen black, shining, and cylindrical towards the tip, which is armed with a circlet of short black spines. Length of the body 14—15 lines; of the wings 22 lines.

a. ——— ?

*ASILUS* Daraps, n. s. *Ferrugineus, thorace nigro quadrivittato, abdomine fulvo, antennis pedibusque ferrugineis, alis subfulvis.*

Head piceous, clothed behind and more thickly beneath with white hairs; crown rather thickly clothed on each side with black hairs; front and clypeus covered with hoary down, the former with a narrow yellow stripe on each side, the latter prominent, and beset with black bristles: eyes dark bronze; fore part flat, composed of rather large facets: lip black, ferruginous, and clothed with tawny hairs at the tip; palpi tawny, and clothed with long white hairs: feelers ferruginous, first and second joints covered with a pale yellow bloom, and beset with some short black bristles; second joint about half the length of the first; third joint spindle-shaped, longer than the first and the second; bristle black, longer than the third joint: ridge of the neck beset with black bristles: chest ferruginous, covered with a few short black hairs, beset on each side and behind with black bristles, adorned with four broad black stripes; the middle pair widened in front; the side pair short, and interrupted by two oblique bands; scutcheon beset with some pale yellow bristles: breast dull ferruginous, piceous about the hips, thinly clothed

with black hairs: abdomen dull tawny, clothed on each side towards the base with yellow hairs, tapering from the base to the tip, narrower than the chest and full twice its length; first and second segments short; third and following segments long, successively, but very slightly decreasing in length; under-side gray: legs ferruginous, clothed with black hairs and bristles; feet darker; claws black, ferruginous at the base; foot-cushions brown: wings with a slight tawny tinge; wing-ribs dark ferruginous; veins piceous; poisers piceous. Length of the body 15 lines; of the wings 25 lines.

a. Brazil.

*ASILUS* Hagno, n. s., mas. *Ferrugineus, thorace nigro quadrivittato, abdomine fusco, antennis ferrugineis, pedibus piceis, alis fuscis.*

Head narrower than the chest, covered with pale tawny down, clothed behind and beneath with pale tawny hairs, beset behind the eyes with black bristles; crown piceous, beset with black hairs on each side; front covered with long black hairs; clypeus prominent, clothed with long black and long pale yellow hairs: eyes dark bronze; fore part flat, with large facets; lip black, clothed at the tip with short tawny hairs; palpi clothed with long pale yellow hairs: feelers dull ferruginous; first and second joints of equal length, beset with short black bristles; third joint spindle-shaped, as long as the first; bristle black, twice the length of the third joint; chest dull ferruginous, thinly clothed with short black hairs, beset on each side and behind with black bristles, adorned with four very broad black stripes, which occupy nearly the whole back; each of the side stripes interrupted by an oblique band; scutcheon clothed with a few long pale yellow hairs: abdomen brown, clothed on each side towards the base with tawny hairs, gray beneath, tapering from the base to the tip, which is black and shining, narrower than the chest, and rather less than twice its length; first and second segments short; third and following segments long: legs piceous, clothed with black hairs and bristles; claws black; foot-cushions piceous: wings brown; wing-ribs and poisers piceous; veins black. Length of the body 13 lines; of the wings 22 lines.

a. Brazil.

*ASILUS* Eanes, n. s. *Cinereo-ferrugineus, abdomine cinereo, pectore pilis fulvis vestito, antennis nigris, articulo 2º ferrugineo, pedibus rufis, alis subfuscis.*

Head a very little narrower than the chest, covered with hoary down, beset behind the eyes with black bristles, clothed beneath with white hairs: crown piceous, beset on each side with black

hairs; clypeus prominent, armed behind with black bristles, and in front with longer and more slender pale yellow bristles: eyes dark bronze; fore part nearly flat, its facets rather larger than those of the other part; lip black, long, clothed at the tip with short tawny hairs; palpi black, clothed with tawny hairs: feelers black; first and second joints beset with short black bristles; second joint ferruginous, about half the length of the first; third joint spindle-shaped, ferruginous at the base, nearly as long as the first; bristle full twice the length of the third joint: chest dull grayish ferruginous, clothed with short black hairs, beset on each side and behind with black bristles: breast gray: abdomen gray, convex, clothed with tawny down, tapering from the base to the tip, narrower than the chest, and full twice its length; first and second segments short; third and following segments long, but successively decreasing in length: legs red, thinly clothed with tawny and black hairs, and armed with black spines; feet darker towards the tips; claws black; foot-cushions tawny; a black stripe along each of the hind thighs: wings pale brown; wing-ribs piceous; veins black; poisers tawny. Length of the body 13 lines; of the wings 21 lines.

a. ——— ?

*ASILUS* Malleolus, n. s., mas. *Fuscus, thoracis vittis ferrugineis tribus et cinereis quatuor, pectore cano, antennis nigris, pedibus rufis, tibiis apice tarsisque nigris, alis flavo-fuscis.*

Head large, a little narrower than the chest, covered with yellow down, thickly clothed behind and beneath with pale yellow hairs, beset behind the eyes with a row of black bristles; crown on each side and tubercle of the eyelets beset with black hairs; clypeus very prominent, thickly armed with long pale yellow bristles, and furnished with some black hairs behind, and with a few black bristles in front: eyes large, bronze; fore part nearly flat, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs: feelers black; first and second joints beset with short black hairs; second joint club-shaped, a little more than half the length of the first: chest brown, broad, thinly clothed with short black hairs, beset on each side and behind with black bristles, adorned with three ferruginous, and with four gray stripes; hind part of the chest and breast hoary: abdomen brown, narrower than the chest, and less than twice its length, tapering from the base to the tip, thickly clothed with long tawny hairs; first and second segments very short; second segment arched, armed on each side with some black bristles; third and following segments long, successively decreasing in length; sexual parts black, shining: legs dark

red, clothed with short yellow hairs, armed with black spines; hips black, clothed with long pale yellow hairs; trochanters, knees, feet and tips of shanks black; foot-cushions tawny: wings yellowish brown; wing-ribs piceous; veins ferruginous; poisers tawny.

Var.  $\beta$ . Body black, covered with white shining down, clothed behind and beneath with white hairs; clypeus armed with a very thick tuft of long white bristles; third joint of the feelers tapering from the base to the tip, nearly as long as the first and the second; bristle longer than the third joint: chest gray, thinly clothed with short black hairs, beset on each side and behind with a few black spines, partly clothed with white hairs: abdomen gray, about twice the length of the chest, hoary; thighs covered with whitish hairs; feet piceous: wings tawny, nearly colourless at the tips; veins black. Length of the body 13 lines; of the wings 24 lines.

a. ——— ?

*ASILUS* Pelago, n. s., mas. et fem. *Piceus, capite nigro, thoracis vittis quatuor nigris, antennis nigris, articulo 3<sup>o</sup> ferrugineo, pedibus nigris, tibiis basi fulvis, alis nigro-fuscis.*

Body piceous: head black, a little narrower than the chest, clothed behind and beneath with white hairs, furnished with black hairs on the crown, beset behind the eyes with a row of black bristles; clypeus armed with a very few long black hairs behind, and with a thick tuft of pale yellow hairs in front: eyes black; fore part flat, its facets larger than those of the other part: lip black, shining, clothed at the tip with short tawny hairs: feelers black; first and second joints beset with short black bristles; second joint a little shorter than the first: third joint dark ferruginous, spindle-shaped, a little shorter than the first and the second; fourth and fifth joints like a bristle, shorter than the third: chest piceous, clothed with short black hairs, beset on each side and behind with black bristles, adorned with four black stripes; middle pair of stripes narrow and linear, side pair shorter and broader; breast rather paler, clothed with white hairs; abdomen flat, red, tapering from the base to the tip, clothed with pale yellow hairs, narrower than the chest, and a little more than twice its length; first and second segments very short, more or less black; third and following segments long, successively, but slightly decreasing in length; eighth and ninth segments black; ninth segment slender, a little longer than the eighth: legs black, clothed with yellow hairs and beset with black bristles; shanks tawny from the base to the middle; claws black; foot-cushions tawny: wings very dark brown; borders of some of the veins paler; wing-

ribs and veins black; poisers piceous. Length of the body 9—10 lines; of the wings 16—20 lines.

- a. Swan River. Presented by Sir J. Richardson.
- b. Swan River.
- c. New Holland. Presented by the Haslar Hospital.
- d. Swan River. From Mr. Turner's collection.
- e. West Australia. From Mr. Clifton's collection.

*ASILUS vetustus*, Walker, Linn. Trans. xvii. 340, 23.

- a. Gorrite. Presented by the Entomological Club.

*ASILUS macrotelus*, Walker, Linn. Trans. xvii. 340, 24.

- a. Gorrite. Presented by the Entomological Club.

*ASILUS* Gobares, n. s., fem. *Cinereus, antennis nigris, pedibus cinereis, femoribus tibiisque subtus ferrugineis, alis subfulvis apice fuscis.*

Body gray: head narrower than the chest, thickly clothed behind and beneath with tawny hairs, furnished with black hairs on each side of the crown; front beset with yellow hairs; clypeus armed with eight long black spines: eyes dark bronze; fore part slightly convex, its facets a little larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs: feelers black; first and second joints clothed with black hairs; second joint club-shaped, much shorter than the first; third joint spindle-shaped, rather shorter than the first and the second; fourth and fifth joints like a slender bristle, about twice the length of the third: chest and breast thinly clothed with a few tawny hairs; the former beset on each side and behind with some long black bristles: abdomen narrower than the chest, and more than twice its length, tapering from the base to the tip, thinly clothed with short hoary hairs; first and second segments short; third and following segments long, but successively decreasing in length to the tip: legs gray, clothed with very short hoary hairs, beset with black spines; thighs and shanks ferruginous beneath; claws black; foot-cushions pale ferruginous: wings slightly tawny, brown towards the tips, reaching when closed a little beyond three-fourths of the length of the abdomen; wing-ribs piceous; veins black, piceous towards the base; poisers tawny. Length of the body 13 lines; of the wings 18 lines.

- a. Silhet. From the Rev. J. Stainforth's collection.

**ASILUS** *Icadius*, n. s., fem. *Fuscus, thoracis vittis tribus pallidioribus, pectore thoracisque lateribus ventrequ cinereo-fulvis, abdominis segmentorum marginibus posticis cinereis, antennis nigris, pedibus rufis, femoribus supra nigris, alis subfuscis.*

Head small, much narrower than the chest, covered with yellowish white down, clothed behind and more thickly beneath with whitish hairs, beset behind the eyes with a row of black bristles; sides of the crown covered with dark tawny down and beset with black bristles; tubercle of the eyelets beset with a cluster of black bristles; clypeus very prominent, thickly armed with long whitish bristles, and in front with a few black bristles: eyes very dark bronze; fore part flat, its facets rather larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: feelers black; first and second joints beset with short black bristles; second joint nearly half the length of the first; third joint spindle-shaped, a little longer than the first; bristle rather stout, as long as the third joint: chest brown, clothed with very short black hairs, beset on each side and behind with black bristles, adorned with three pale brown stripes, ferruginous on each side of the front, hoary behind: breast and sides of the chest tawny, tinged with gray, partly clothed with whitish hairs: abdomen brown, narrower than the chest, and much more than twice its length, tapering from the base to the tip; hind borders of the segments gray; under-side ferruginous, with a hoary bloom; first and second segments very short; third and following segments long; tip piceous, shining, nearly cylindrical, armed with a circlet of short black spines: legs red, clothed with short whitish hairs, armed with black spines; thighs black above; claws black; foot-cushions tawny: wings tinged with brown; wing-ribs ferruginous; veins piceous; poisers tawny. Length of the body 12 lines; of the wings 18 lines.

a. ———?

**ASILUS** *Ogulinus*, n. s., fem. *Fuscus, thoracis vittis tribus pectoreque pallidioribus, abdominis apice ferrugineo, antennis nigris, pedibus rufis, antennis femoribusque posticis nigris, alis flavo-fuscis.*

Body dark brown: head narrower than the chest, covered with hoary down, clothed behind and beneath with hoary hairs, beset behind the eyes with a row of black and some white bristles; crown covered with dark tawny down, clothed on each side with long yellow hairs, and with a few black hairs; tubercle of the eyelets beset with black bristles; clypeus thickly beset with long pale yellow hairs, and also armed with a few black bristles: eyes very dark bronze; fore part convex, its facets a little larger than those of the other



part: lip black, clothed at the tip with short yellow hairs; palpi black, beset with long black hairs; first and second joints of the feelers black, beset with short black bristles; second joint not half the length of the first: fore chest beset with pale yellow hairs and black bristles: chest clothed with very short black hairs, beset on each side with a few and behind with many bristles, adorned with three paler slender brown stripes; sides and breast pale brown, thinly clothed here and there with hoary hairs: abdomen much narrower than the chest, and much more than twice its length, tapering from the base to the tip, covered with tawny down, clothed with short black and whitish hairs, and with some long hairs on each side of the base; first and second segments very short; third and following segments long, successively decreasing in length; last segments cylindrical, ferruginous, shining; tip armed with a circlet of short black spines: legs dark red, clothed with short whitish hairs, armed with black spines; claws black; foot-cushions tawny; hind thighs black: wings yellowish brown; wing-ribs and veins dark ferruginous; pointers piceous. Length of the body  $10\frac{1}{2}$  lines; of the wings 15.

α. —

ASILUS Gorgasus, n. s., fem. *Fuscus, thoracis vittis tribus pectoreque cinereis, abdominis segmentorum marginibus posticis fulvis, antennis pedibusque nigris, alis rubcinctis apice obscurioribus.*

Body dark brown: head much narrower than the chest, covered with hoary down, thickly clothed behind and beneath with golden hairs, beset behind the eyes with a row of black bristles; sides of the crown and the side of the eyelets beset with black hairs; front and clypeus covered with tawny down; clypeus thickly beset with long black and pale yellow bristles: eyes dark bronze; fore part slightly convex: facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: feelers black; first joint beset with long black bristles; second joint with short black bristles; third joint spindle-shaped, slender, a little longer than the first and the second; bristle stout, much shorter than the first joint: chest thinly clothed with short black hairs, beset on each side and behind with black bristles, adorned with three slender gray stripes; sides and breast also gray: abdomen much narrower than the chest, and much less than twice its length, tapering from the base to the tip, clothed with short black hairs; hind borders of the segments tawny; first and second segments very short; third and following segments long, successively decreasing in length; tip black, compressed: legs black, clothed with short tawny hairs, armed with black spines;

claws tawny at the base; foot-cushions dark tawny: wings light gray, darker on the disks of the segments towards the tips; wing-ribs piceous; veins black; poisers tawny. Length of the body 9 lines; of the wings 14 lines.

a. ——— ?

*ASILUS inglorius*? *Macleay, King, Narr. Surv. Austral. ii. 467, 182*  
*Wied. Auss. Zweif. ii. 644, 63.*

a. New Holland. Presented by the Haslar Hospital.

*ASILUS Amycla*, n. s., fem. *Fulvus, antennis fulvis apice nigris, pedibus rufis, coxis, genubus tarsisque nigris, alis subfulvis*

Head nearly as broad as the chest, thickly clothed behind and beneath with white hairs, beset behind the eyes with tawny bristles; tubercle of the eyelets beset with a few black hairs; clypeus thickly armed with white hairs and bristles; front clothed with white hairs: eyes large, dark bronze; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs: first and second joints of the feelers tawny; first joint clothed with short tawny hairs; second joint beset with short black bristles; third joint black, long, tapering from the base to the tip; bristle a little longer than the third joint: chest dull tawny, beset on each side and behind with stout black bristles, clothed behind with a few tawny hairs; breast pale tawny, with a hoary tinge: abdomen narrower than the chest, and nearly twice its length, tapering from the base to the tip, clothed with tawny hairs, tawny with an interrupted black stripe on the back, paler and with a hoary tinge beneath; first and second segments very short; third and following segments long, successively decreasing in length: legs red, clothed with tawny hairs, armed with black spines; hips, knees, and feet black; foot-cushions tawny; shanks and feet covered beneath with thick tawny down: wings slightly tawny; wing-ribs ferruginous; veins piceous; poisers tawny. Length of the body 12 lines; of the wings 22 lines.

a. New Holland. Presented by J. Hunter, Esq.

*ASILUS Amythaon*, n. s., fem. *Fuscus, capite fulvo, thoracis vittis quatuor nigro-fuscis, pectore cano, abdomine rufo apice nigro, pedibus rufis, tarsis nigris, alis subcinereis. A. Sydneensis?*

Body light brown: head pale tawny, a little narrower than the chest, clothed behind and beneath with white hairs, furnished with some black hairs on the crown, beset behind the eyes with a row of black bristles; clypeus armed behind with long black hairs, and before with longer pale yellow bristles: eyes black; fore part quite flat,

not very distinct from the other part, but its facets are a little larger; lip black, shining, clothed at the base with long pale yellow hairs, at the tip with short yellow hairs; palpi black, clothed with black bristles: feelers black; first and second joints beset with black hairs and bristles; second joint a little shorter than the first; third joint spindle-shaped, a little shorter than the first and the second; fourth and fifth joints like a bristle, rather longer than the third: chest with four dark brown stripes; middle pair the longest and most regular; breast hoary, with a few pale yellow hairs: abdomen flat, red, tapering from the base to the tip, clothed with pale yellow hairs, narrower than the chest and about twice its length; segments from the third to the sixth long, and nearly equal in length; seventh and eighth segments shorter; ninth segment black, shining: legs red, clothed with short whitish hairs, and armed with some black bristles; hips hoary; knees, feet, and claws black; foot-cushions tawny: wings pale gray, darker towards the tips; wing-ribs piceous; veins black; poisers yellow. Length of the body 10—11 lines; of the wings 16—18 lines.

a. New Holland. Presented by J. Hunter, Esq.

b. ——— ?

*ASILUS* Maso, n. s., fem. *Niger, thorace aureo pubescente nigro quadrivittato, scutello metathorace pectoreque canis, abdomine rufo basi cinereo apice nigro, antennis nigris, pedibus rufis, tarsis nigris, alis fulvis.*

Head black, narrower than the chest, covered with pale yellow down, clothed behind and more thickly beneath with pale yellow hairs, beset behind the eyes with a row of black bristles; tubercle of the eyelets and sides of the crown beset with black hairs; clypeus prominent, armed with black hairs and with longer white bristles: eyes dark bronze; fore part nearly flat, its facets larger than those of the other part: lip black, clothed at the tip with short yellow hairs; palpi black, beset with black hairs: feelers black, covered with a gray bloom; first and second joints thickly beset with short stout black hairs; second joint club-shaped, full half the length of the first; third joint slightly tapering from near the base to the tip, a little longer than the first; bristle shorter than the third joint: ridge of the fore chest clothed with long pale yellow hairs, and beset with black bristles: chest covered with golden down, thinly clothed with short black hairs, beset on each side and behind with a few black bristles, adorned with four black stripes; middle stripes narrow, slightly tapering from the fore border till near the hind border, where they unite to finish their course; side stripes shorter and broader, each of them interrupted by two ob-

lique bands, and by one short stripe of golden down: sides of the chest, scutcheon, and hind chest hoary: abdomen red, narrower than the chest and full twice its length, slightly tapering from the base to the tip, thinly clothed with short yellow hairs, which, however, are longer and more numerous towards the sides of the hind borders of the segments; first and second segments gray, very short; second segments arched, clothed with some long whitish hairs, and beset on each side with a few whitish bristles; third and following segments long, successively decreasing in length to the tip, which is black and shining; third segment crossed by two rows of black punctures near the base, which is gray; sutures of the segments black; under-side gray, clothed on each side with a few pale yellow hairs: legs red, clothed with short black and long white hairs, armed with black spines; hips gray; trochanters black; feet black, covered on the under-side like the shanks with tawny down; claws black, red at the base; foot-cushions tawny: wings tawny; wing-ribs and veins piceous; poisers tawny. Length of the body 11 lines; of the wings 20 lines.

a. ———?

*ASILUS Sydneensis?* mas. *Macq. Dipt. Exot. i. 2, 144, 23.*

a. Port Stephen, New Holland. Presented by the Earl of Derby.

*ASILUS Alcetas*, n. s., fem. *Niger, capite flavo pubescente pilisque nonnullis canis et nigris vestito, clypeo setis flavis armato, thorace vittis quinque flavis, pectore flavo pubescente, abdomine pilis flavis vestito, antennis nigris, pedibus rufis, tarsis nigris, alis subfulvis.*

Head a little narrower than the chest, covered with pale yellow down, clothed behind and beneath with long hoary hairs, and beset behind the eyes with a few black bristles; crown clothed with a few black hairs; clypeus beset with a few black hairs behind, and with more and longer pale yellow bristles in front: eyes black; fore part slightly convex, its facets not much larger than those of the other part, from which it is hardly distinguishable: lip black, short, clothed at the tip with yellow hairs: first and second joints of the feelers black, beset with black bristles; second joint much shorter than the first: chest with five dull pale yellow stripes, each stripe beset with black bristles, the side stripes also armed with black spines: breast clothed with pale yellow down: abdomen clothed with pale yellow hairs, tapering from the base to the tip, much narrower than the chest, and rather more than twice its length; first segment very short; second segment short; third segment long; fourth segment a little shorter; fifth segment full as long as

the fourth; sixth segment very nearly as long as the fifth; seventh segment shorter; eighth segment still shorter; ninth segment black, a little longer than the eighth: legs red, clothed with short pale yellow hairs; hips and trochanters black, clothed with long pale yellow hairs; thighs and shanks beset with some black spines; knees and feet black, the latter thickly armed with black spines, and clothed beneath with bright tawny down; claws black; foot-cushions pale tawny: wings with a slight tawny tinge; wing-ribs ferruginous; veins piceous, ferruginous at the base, black towards the tips; poisers tawny. Length of the body 8 lines; of the wings 14 lines.

a. Van Dieman's Land. Presented by R. Butler, Esq.

*ASILUS* Barium, n. s., mas. *Fuscus, thoracis vittis quinque fulvis, metathorace et pectore canis, abdominis segmentorum marginibus posticis fulvis, apice nigro, ventre cinereo, antennis pedibusque fulvis, femoribus et tibiis apice tarsisque nigris, alis limpidis dilatis, apice cinereis.*

Body brown: head nearly as broad as the chest, covered behind with hoary down, and clothed there and beneath with white hairs; crown and front covered with tawny down; clypeus prominent, armed with long white bristles: eyes bronze; fore part slightly convex, its facets rather larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: feelers tawny; first and second joints beset with short stout black hairs; second joint much less than half the length of the first; third joint spindle-shaped, much shorter than the first; bristle black, more than twice the length of the first joint: chest dark brown, beset on each side and behind with a few black bristles, adorned with five pale tawny stripes; middle stripe indistinct, except in front; inner-side stripes joined in front to the outer stripes, the latter are connected by three oblique tawny bands with the sides of the chest, which are also pale tawny; breast and hind chest hoary: abdomen brown, thinly clothed with pale yellow hairs, very much narrower than the chest, and about twice its length, slightly tapering from the base to the tip; hind borders of the segments tawny; under-side gray; first and second segments very short; third and following segments long, but successively decreasing in length to the tip, which is black and shining: legs bright tawny, clothed with black and tawny hairs, armed with black spines; hips gray; tips of thighs and of shanks black; feet black, tawny at the base; foot-cushions tawny: wings colourless, gray towards the tips, much widened from the middle to the tips, the fore borders

being very convex; wing-ribs and veins black; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 14 lines.

a. Ceylon. From the Rev. J. Wenham's collection.

*ASILUS* Baletus, n. s. mas. *Fuscus, thoracis vittis tribus lateribus pectoreque fulvis, abdominis segmentorum marginibus posticis lateribus ventrequae fulvis, apice nigro, antennis nigris, pedibus rufis nigro-variis, alis flavo-fuscis.*

Body dark brown: head as broad as the chest, covered with pale yellow down, clothed with a few whitish and black bristles behind, and more thickly beneath with white hairs; crown beset with some black hairs on each side; clypeus rather prominent, thickly beset with long pale yellow bristles, and also armed on the hinder part with a few black bristles: eyes dark bronze; a small surface of the fore part flat, and composed of much larger facets than those of the other part: lip black, clothed at the tip with short yellow hairs; palpi black, clothed with long black hairs: feelers black; first and second joints beset with short black bristles; second joint hardly half the length of the first; third joint spindle-shaped, a little longer than the second; bristle slender, as long as all the preceding joints: chest thickly clothed with black hairs of various length, beset on each side and behind with black bristles, adorned with three tawny stripes; side stripes widened in front and behind, and also connected with the sides of the chest by four oblique tawny bands; fore chest, hind chest, sides of the chest, and breast tawny, the latter with a hoary tinge: abdomen dull tawny, much narrower than the chest, and full twice its length, thinly clothed with whitish hairs; its back brown, with the exception of the sides and of the hind borders of the segments; first and second segments short; third and following segments long, successively decreasing in length to the tip, which is black and shining: legs pale red, clothed with short black hairs, armed with a few black spines; hips tawny; feet black, red at the base; foot-cushions tawny; shanks paler than the thighs; streaks on the hind thighs, tips of the four hinder thighs, tips of the hind shanks, and hind feet black: wings yellowish brown; wing-ribs and veins black; poisers tawny. Length of the body  $7\frac{1}{2}$  lines; of the wings 11 lines.

a. Venezuela. From Mr. Dyson's collection.

**ASILUS lamenus**, n. s., mas. *Fuscus, thoracis vittis quatuor maculisque nonnullis nigro-fuscis, scutello metathorace pectoreque canis, abdomine cano maculis dorsalibus fuscis, antennis fulvis apice piceis, pedibus rufis, femoribus nigro-vittatis, tibiis tarsisque apice piceis, alis subfulvis dilatatis.*

Head narrower than the chest, covered with pale tawny down, clothed thinly behind and thickly beneath with white hairs, beset behind the eyes with a row of black bristles; crown covered with pale ferruginous down, beset on each side with a few black hairs; clypeus prominent, thickly armed with long whitish bristles: eyes bronze; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: first and second joints of the feelers tawny, beset with short black bristles; second joint hardly half the length of the first; third joint piceous, tapering from the base to the tip, about three-fourths of the length of the first; bristle black, a little longer than the second and the third: chest very light brown, clothed with very short black hairs, beset on each side and behind with black bristles, adorned with four dark brown stripes, and with some dark brown marks, each side stripe interrupted by two oblique tawny bands; scutcheon, hind chest, and breast hoary: abdomen rich brown, much narrower than the chest, and about twice its length, tapering from the base to the tip, thinly clothed with short pale hairs, adorned on each side with long whitish hairs; sides and hind borders of the segments, and the whole of the under-side hoary; first and second segments short; second segment armed on each side with some black bristles; third and following segments long, successively decreasing in length; sexual parts shining, piceous, rather large: legs pale red, thinly clothed with very short whitish hairs, armed with black spines; hips clothed with long whitish hairs; thighs striped with black; tips of shanks and of feet piceous; claws black; foot-cushions dark tawny: wings light tawny, reaching when closed a very little beyond three-fourths of the length of the abdomen, widened from the middle to the tips by means of the very convex fore border; wing-ribs piceous; veins black; poisers dark tawny. Length of the body  $10\frac{1}{2}$  lines; of the wings 15 lines.

a. North Bengal. From Miss Campbell's collection.

**ASILUS Alamanus**, n. s. *Fuscus, attenuatus, thorace nigro, vittis tribus fasciisque obliquis quatuor fuscis, lateribus canis, abdomine cinereo, maculis trigonis nigris, antennis pedibusque nigris, alis subfuscis apice cinereis.*

Body long, brown: head much narrower than the chest, thickly clothed behind and beneath with yellowish white hairs, beset behind

the eyes with black bristles, furnished on the crown with a few black hairs; front and clypeus covered with yellow down, the latter armed with mingled black and yellow bristles: eyes black; fore part nearly flat, with facets a little larger than those of the other part: lip and palpi black, the latter clothed with black hairs: feelers black; first and second joints beset with black hairs; second joint club-shaped, much shorter than the first; third joint spindle-shaped, a little longer than the first and the second; fourth and following joints like a bristle, which is a little longer than the third: chest beset with a few black hairs and bristles; its disk black, with three brown stripes; side stripes joined by two oblique bands to the sides of the chest, which are hoary, with a yellow tinge: breast gray, with a ferruginous tinge, especially on the fore part, clothed here and there with white hairs: abdomen gray, clothed with short white hairs, very slender, and much lengthened towards the tip, nearly thrice the length of the chest; a large black nearly triangular spot on each segment, the gray of whose sides widens as it approaches the hind border, which is also gray; first and second segments short; third and following segments long, successively but slightly increasing in length to the ninth, which is black and shining; tip beset with short black spines: legs black, clothed with short white hairs, and armed with black spines, which on the thighs are short, and chiefly on the under-side; claws black; foot-cushions dull pale ferruginous: wings pale brown, with gray tips; wing-ribs piceous, veins black; poisers tawny. *Variation in the wing-veins.*—An additional little cross-vein at the base of each of the open submarginal arcolets. Length of the body 14 lines; of the wings 17 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS* *Ædithus*, n. s., mas. et fem. *Ferrugineus, thoracis disco fusco, abdomine fulvo, maculis triangulis nigris, antennis nigris, pedibus ferrugineis, femoribus subtus nigris, alis sublimpidis.*

Body brown: head ferruginous, narrower than the chest, covered with white down, clothed behind and beneath with white hairs, beset behind the eyes with black and white bristles; sides of the crown furnished with a few black, and those of the front with white hairs; clypeus armed with black and white bristles: eyes black; fore part slightly convex, with facets rather larger than those elsewhere on the eye: lip and palpi black, the latter beset with black bristles: first and second joints of the feelers black, clothed with short black hairs; second joint a little shorter than the first: chest with five silky white stripes; middle stripe very slender and short; inner pair widening towards the fore border, where they join the outer pair: chest clothed with very short white hairs, beset on



each side and behind with longer white hairs and with black bristles; scutcheon, hind chest, sides of the chest, and breast mostly ferruginous with a hoary bloom: abdomen dark tawny, narrower than the chest, and about twice its length, tapering from the base to the tip, clothed with white hairs, which are longer and more numerous towards the base, especially on the under-side; segments above mostly black, excepting the sides and the hind borders, and then the tawny hue on the former widens as it approaches the latter, and thus the black spots are nearly triangular; first and second segments short; third and following segments long, and of nearly equal length; tip slender, black: legs ferruginous, stout, thickly clothed with short white hairs and armed with black spines; thighs black beneath; knees and claws black; foot-cushions bright tawny: wings nearly colourless, when closed reaching nearly to the tip of the abdomen; wing-ribs ferruginous; veins piceous, ferruginous along the fore borders; poisers tawny, with piceous knobs. Length of the body 11—12 lines; of the wings 16—18 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS* Schedius, n. s. *Ferrugineus, thoracis vittis quatuor nigris, abdomine nigro, antennis nigris, articulo 2<sup>o</sup> pedibusque ferrugineis, femoribus subtus nigris, tarsis piceis, alis limpidis.*

Body broader and shorter than that of *A. Ædithus*: head somewhat narrower than the chest, clothed behind, and more thickly beneath with white hairs, beset along the upper hind borders of the eyes with a row of bright ferruginous bristles; crown dark tawny, with a few tawny hairs and a single black hair on each side; front and clypeus clothed with golden down; front with a few slender yellow bristles; clypeus with more and stouter ferruginous and black bristles, the latter on the hind part: eyes black; fore part slightly convex, its facets larger than those of the other part: lip and palpi black; the latter clothed with tawny hairs, and with a very few black bristles: feelers black; first and second joints beset with black hairs; second joint ferruginous, about half the length of the first; third joint spindle-shaped, as long as the first; fourth and following joints like a bristle, which is a little longer than the second and the third: chest ferruginous, with four broad black stripes, thinly clothed with short white hairs, beset on each side with black and pale ferruginous bristles; breast and sides of the chest pale ferruginous, slightly covered with a gray bloom, clothed here and there with white hairs: abdomen black, tapering from the base to the tip, a little narrower than the chest, and much longer, but not near twice its length, clothed with white hairs; first and second segments short; third and following segments longer,

but successively decreasing in length to the tip, which is shining and quite black: legs ferruginous, stout, clothed with white hairs and beset with black bristles; thighs mostly black beneath; feet and foot-cushions piceous; claws black: wings colourless, reaching when closed to the tip of the abdomen; wing-ribs dark ferruginous; veins ferruginous, piceous towards the tips; poisers tawny. Length of the body 9 lines; of the wings 15 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS* Centho, n. s., mas. *Flavo-fuscus, thoracis vittis quinque scutello metathorace pectoreque fulvis, abdominis apice nigro, antennis piceis ferrugineo cinctis, pedibus rufis, tarsis nigris, alis limpidis, venis fulvo limbatis.*

Head piceous, much narrower than the chest, clothed behind with some yellow bristles and white hairs, thickly clothed beneath with longer white hairs; crown furnished with some yellow hairs on each side; clypeus prominent, clothed with yellow hairs, beset in front with long yellow bristles: eyes dark bronze, large; fore part flat, its facets larger than those of the other part: lip black, rather long, its tip clothed with short tawny hairs; palpi black, clothed with long yellow hairs: first and second joints of the feelers clothed with tawny hairs: first joint piceous, ferruginous towards the tip; second joint ferruginous, slightly club-shaped, rather more than half the length of the first: third joint piceous, spindle-shaped, ferruginous towards the tip, longer than the first; bristle black, very much longer than the third joint: chest yellowish brown, beset on each side and behind with a few black bristles, and with some short yellow hairs, adorned with five indistinct slender tawny stripes; the two side stripes on each side are close together; sides, scutcheon, hind chest, and breast pale tawny: abdomen yellowish brown, clothed with short yellow hairs, beset on the hind borders of the segments with some yellow bristles, tapering from the base to the tip, much narrower than the chest, and full twice its length; first and second segments very short; second segment arched, thickly clothed with long yellow hairs; third and following segments long, but successively decreasing in length to the tip, which is black and shining; third and fourth segments thickly clothed with long yellow hairs; under-side with a gray tinge: legs red, clothed with short yellow hairs and with little black bristles, armed with black spines; hips gray; fore pair clothed with long pale yellow hairs; knees and feet black; fore feet and middle feet armed beneath with short curved black spines, which have each a tooth near the middle; foot-cushions dark tawny: wings colourless, tawny along the fore

borders of the veins ; wing-ribs ferruginous ; veins piceous ; poisers pale tawny. Length of the body 12 lines ; of the wings 20 lines.

a. New Holland.

b. ——— ?

*ASILUS striola*, Wied. *Dipt. Exot.* i. 199, 31. *Auss. Zweif.* i. 464, 58. *Dasypogon striola*, Fabr. *Syst. Antl.* 172, 38.

a. Brazil?

*ASILUS rufinervis*, Hoffmannsegg, Meig. *Dipt.* ii. 324, 27.

a. Hartz Mountains. Presented by Dr. Hoffmeister.

*ASILUS Curvatus*, n. s., mas. *Niger, pectore cano, antennis pedibusque nigris, femoribus tibiisque subtus rufis, alis fuscis.*

Body black : head narrower than the chest, covered with tawny down, clothed behind and beneath with tawny hairs, beset on each side of the crown with a few black bristles ; clypeus prominent, thickly covered with long black and tawny bristles : eyes black ; fore part convex, its facets a little larger than those of the other part : lip black, clothed at the tip with short tawny hairs ; palpi black, clothed with long black hairs : first and second joints of the feelers black, clothed with short black bristles ; second joint much shorter than the first : chest thinly clothed with black hairs, beset on each side and behind with a few black bristles : breast hoary : abdomen much narrower than the chest, and more than twice its length, tapering from the base to the tip, clothed with short pale tawny hairs, and on each side towards the base with longer and paler hairs ; first and second segments very short ; third and following segments long, successively decreasing in length ; sexual parts rather large : legs black, clothed with short black hairs, armed with black spines ; thighs and shanks red beneath ; foot-cushions pale piceous : wings dark brown ; borders of some of the veins rather paler ; wing-ribs piceous ; veins black ; poisers tawny. Length of the body  $8\frac{1}{2}$  lines ; of the wings 13 lines.

a. Nepal. From the Hardwicke bequest.

*ASILUS Malis*, n. s., fem. *Ferrugineus, thoracis vittis quatuor nigris, abdomine piceo, segmentorum marginibus posticis ferrugineis, apice compresso nigro, antennis pedibusque nigris, tarsis basi tibiisque rufis, alis fuscis.*

Body piceous : head nearly as broad as the chest, covered behind and beneath with pale tawny down ; above and in front with ferruginous down, clothed behind with tawny hairs and with a row

of black bristles, more thickly clothed beneath with whitish hairs; front beset with some black hairs on each side; clypeus very prominent, armed with a few long black and yellow bristles: eyes very dark bronze; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs; feelers black: first and second joints beset with a few short black bristles; second joint not half the length of the first; third joint slightly tapering from the base to the tip, hardly longer than the first; bristle very much longer than the third joint: chest and breast dark ferruginous, thinly clothed with short black hairs: chest beset on each side and behind with some black bristles, adorned with four black stripes; side stripes short, broad, each interrupted by an oblique tawny band: abdomen piceous, narrower than the chest, and about twice its length, tapering from the base to the tip, clothed with short tawny hairs, and at the base with some longer and paler hairs, hoary on each side and beneath; hind borders of the segments ferruginous; first and second segments short; second segment arched; third and following segments long, successively decreasing in length to the tip, which is compressed, black and shining: legs black, clothed with short tawny hairs, armed with black spines; shanks red; feet red at the base; foot-cushions tawny: wings brown; wing-ribs piceous; veins black; poisers tawny. Length of the body 9 lines of the wings 14 lines.

a. ——— ?

ASILUS Gerion, n. s., fem. *Ferrugineus, thoracis vittis quatuor piceis, abdomine nigro, apice compresso, pedibus nigris, tibiis fulvis, alis fuscis.*

Body piceous: head nearly as broad as the chest, covered with dark tawny down, clothed behind and beneath with hoary hairs, beset behind the eyes with a row of black bristles; crown beset with black hairs on each side; clypeus very prominent, thickly armed with black hairs and bristles: eyes bronze; fore part nearly flat, composed of large facets: lip black, clothed at the tip with short pale yellow hairs; palpi black, clothed with long black hairs: fore-chest short, beset with some black bristles: chest and breast dark ferruginous, thinly clothed with short black hairs: chest beset on each side and behind with a row of black bristles, adorned with piceous stripes; each of the side pair interrupted by an oblique band; abdomen black, narrower than the chest, and more than twice its length, tapering from the base to the tip, clothed with short black hairs, and towards the base with long hoary hairs; first and second segments very short; third and following segments long, successively

decreasing in length; third segment crossed by two rows of black punctures; tip shining, compressed; under-side piceous: legs black, clothed with short black hairs, armed with black spines; shanks very dark tawny, black towards the tips; foot-cushions piceous: wings dark brown, blackish along the fore borders, paler towards the hind borders, where the disks of the areolet are almost colourless: wing-ribs and veins black; poisers tawny. Length of the body  $10\frac{1}{2}$  lines; of the wings 18 lines.

a. Brazil.

*ASILUS* Peticus, n. s. fem. *Ferrugineus, thoracis disco nigro vittis tribus ferrugineis, abdomine piceo apice nigro compresso, antennis pedibusque nigris, tibiis ferrugineis, alis fuscis.*

*Head* as broad as the chest, covered with tawny down, beset behind the eyes with some black bristles and pale yellow hairs, more thickly clothed beneath with white hairs; crown covered with dark ferruginous down, beset on each side with black hairs; clypeus very prominent, armed with long stout black bristles, and in front with a few long white hairs: eyes dark bronze; a small portion of the fore part flat, and composed of much larger facets than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs: feelers black; first and second joints clothed with black hairs; second joint not half the length of the first; third joint tapering from the base to the tip, nearly as long as the first; bristle much longer than the third joint: chest thinly clothed with black hairs, beset on each side and behind with black bristles, adorned with three ferruginous stripes; each side stripe connected by an oblique ferruginous band with the sides of the chest, which like the breast, are also ferruginous: abdomen piceous, narrower than the chest, and about twice its length, clothed with ferruginous hairs, tapering from the base to near the tip, which is compressed, black, and shining; first and second segments very short, arched, covered on each side with a few long black bristles; third and following segments long, successively decreasing in length; under-side tinged with gray: legs black, clothed with black hairs, armed with black spines and bristles; shanks very dark ferruginous; foot-cushions piceous: wings dark brown; wing-ribs and veins black; poisers tawny. Length of the body  $10\frac{1}{2}$  lines; of the wings 18 lines.

a. Brazil.

*ASILUS* iopterus, Wied. Auss. Zueif. i. 438, 21.

a. Para. Presented by J. P. George Smith, Esq.

**ASILUS** Sophus, n. s. *Fuscus, thoracis vittis duabus lateribusque ferrugineis, pectore fulvo, abdominis segmentorum marginibus posticis fulvis, antennis nigris, pedibus rufis nigro variis, alis fulvis apice fuscis.*

Head nearly as broad as the chest, covered with ferruginous down, clothed behind and beneath with yellow hairs, beset behind the eyes with black bristles; sides of the crown furnished with black hairs; clypeus prominent, armed with long black bristles; eyes large, purplish bronze; fore part slightly convex, its facets much larger than those of the other part: lip stout, black, clothed at the tip with short yellow hairs; palpi black, clothed with long black hairs: feelers black; first and second joints clothed with black hairs; second joint nearly as long as the first; third joint tapering from the base to the tip, nearly as long as the first and the second; bristle nearly twice the length of the third joint: chest dark brown, thinly clothed with black hairs, beset on each side and behind with black bristles, adorned with two ferruginous stripes, which are connected with the ferruginous sides by two oblique bands of the same colour: breast tawny, with a hoary tinge, partly clothed with hoary hairs: abdomen dark brown, narrower than the chest; hind borders of the segments tawny: legs red, clothed with black and tawny hairs, armed with black spines; hips, knees, feet, and tips of shanks black; thighs streaked with black; foot-cushions tawny: wings dark tawny, brown towards the tips; wing-ribs piceous; veins black; poisers ferruginous. Length of the body 12? lines; of the wings 16 lines.

a. ———?

**ASILUS barbarus**, *Fabr. Sp. Ins.* ii. 461, 4. *Ent. Syst.* iv. 377, 5. *Syst. Antl.* 154, 5. *Gmel. Ed. Syst. Nat.* v. 2895, 3. *Latr. Gen. Crust.* iv. 298.

a. Gibraltar. Presented by B. Frend, Esq.

b. Tunis. From Mr. Fraser's collection.

c. Tripoli.

d. Spain.

**ASILUS crabroniformis**, *Linn. Faun. Suec.* 1908. *Gmel. Ed. Syst. Nat.* v. 2896, 4. *Fabr. Sp. Ins.* ii. 461, 5. *Ent. Syst.* iv. 377, 6. *Syst. Antl.* 154, 6. *Deg. Ins.* vi. 98, 7, t. 14, f. 3. *Schaff. Icon.* t. 8, f. 15. *Schell. Gen. Mouch.* t. 29, f. 1. *Geoff. Ins.* ii. 468, 3, t. 17, f. 3. *Frisch. Ins.* iii. t. 8. *Herbst. Gen. Nat.* viii. 118. *Schrank. Faun. Boic.* iii. 2541. *Ins.*

*Austg.* 992. *Latr. Gen. Crust.* iv. 298. *Cons. Gén.* 443. *Fall. Dipt. Suec. Asil.* 8, 1. *Meig. Dipt.* ii. 309, 4.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*ASILUS apicata*, n. s., fem. *Niger, thoracis lateribus ferrugineis, pectore cano, abdominis segmentis fulvo fasciatis, ventre piceo, pedibus fulvis, femoribus nigro vittatis, alis subflavis marginibus posticis cinereis.*

Allied to *A. crabroniformis*. Body black, clothed with short yellow hairs: head as broad as the chest, clothed with pale shining yellow hairs; clypeus prominent, beset with long pale yellow bristles; and with some shorter black bristles: eyes very large, dark bronze; fore part flat, composed of very large facets, and quite distinct from the other part: lip black, shining, clothed at the base with long pale yellow hairs, and at the tip with short tawny hairs; tongue and palpi black, the latter clothed with tawny hairs: chest covered with pale tawny bloom, ferruginous on each side behind; sides beset with some tawny bristles: breast hoary and clothed with hoary hairs: abdomen linear, clothed with tawny hairs, narrower than the chest, and much less than twice its length; hind borders of the segments tawny; under-side piceous; segments from the third to the sixth successively, but very slightly decreasing in length; seventh segment much shorter than the sixth: eighth and ninth segments small: legs tawny, clothed with tawny hairs, and beset with some slender tawny bristles; hips black; thighs streaked with black; claws black, tawny at the base; foot-cushions tawny: wings pale yellow; hind borders gray; wing-ribs and veins bright tawny, some of the latter yellow; poisers yellow. Length of the body 9 lines; of the wings 18 lines.

a. Java.

*ASILUS Calatinus*, n. s., mas. *Fulvus, thoracis disco fusco vittis tribus fulvis, abdominis segmentorum marginibus posticis piceis, antennis flavis apice piceis, pedibus alisque fulvis.*

Body tawny: head a little narrower than the chest, covered with whitish down, beset behind the eyes with a few white hairs and black bristles, thickly clothed beneath with white hairs; crown covered with tawny down; front clothed with a few white hairs; clypeus armed with long white spines: eyes bronze: fore part flat, its facets much larger than those of the other part: lip black,

clothed at the tip with short tawny hairs; palpi black, beset with black hairs and bristles: first and second joints of the feelers beset with short stout black hairs: first joint pale yellow: second joint tawny, about half the length of the first; third joint piceous, tapering from near the base to the tip, tawny at the base, shorter than the first; bristle black, much more than twice the length of the first joint: fore-chest pale tawny, beset with yellow bristles: chest pale brown, thinly clothed with black hairs, beset on each side and behind with some black bristles, adorned with three pale tawny stripes, and on each side with three oblique pale tawny bands, the latter connect the side stripes with the sides of the chest, which are also pale tawny; scutcheon pale tawny; hind chest and breast whitish: abdomen yellowish tawny, narrower than the chest, and more than twice its length, tapering from the base to the tip, clothed with tawny hairs; each segment ferruginous towards the hind border, which is piceous; tip black, and clothed with black hairs; under-side paler, and with a whitish bloom, especially towards the base; first and second segments very short; second segment arched; third and following segments long, successively decreasing in length; third, fourth, and fifth segments beset on each side of the hind border with some yellow bristles, which successively decrease in number; third segment crossed by a furrow and by some rows of punctures near the fore border: legs tawny, clothed with black and tawny hairs, armed with some black spines, and with a few white bristles; hips whitish, clothed with long white hairs; knees black; claws black, tawny towards the base; foot-cushions tawny: wings tawny; wing-ribs piceous; veins black, piceous towards the base; poisers yellow, with ferruginous knobs. Length of the body 9½ lines; of the wings 16 lines.

a. Brazil.

In a fly of this species there is a very short fork near the base of the vein between the submarginal areolets in one wing.

*ASILUS chrysitis*, *Hoffmansegg, Meig. Dipt.* ii. 310, 5.

a. Marseilles.

b. Albania. Presented by W. W. Saunders, Esq.

c. ———?

*ASILUS* *Tucca*, n. s., fem. *Niger, aureo pubescens, abdominis maculis aureis, antennis nigris, pedibus nigro variis, femoribus rufis, tibiis fulvis, alis limpidis, apicibus marginibusque posticis cinereis.*

Body black: head nearly as broad as the chest, covered with golden down, clothed behind and beneath with hoary hairs, beset



behind the eyes with black bristles; tubercle of the eyelets beset with a cluster of black bristles; sides of the crown covered with black hairs; clypeus prominent, thickly beset with long yellow bristles: eyes large, bronze, fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short pale yellow hairs; palpi black, beset with long black hairs: first and second joints of the feelers black, clothed with black hairs; second joint a little shorter than the first: chest and breast covered with golden down: chest beset with a few black hairs and bristles on each side and behind; its disk mostly black: breast covered with a hoary bloom, and partly clothed with hoary hairs: abdomen longer and a little narrower than the chest, but not near twice its length, tapering from the base to the tip, clothed with tawny hairs, which are longest and most numerous at the base, adorned with a large golden spot on the hind border of each segment; first and second segments very short; third and following segments long, successively decreasing in length to the tip, which is armed with a circlet of short black spines: legs clothed with short yellow and black hairs, armed with black spines; thighs red; shanks tawny; hips, knees, feet, and tips of thighs and of shanks black; foot-cushions tawny: wings colourless, gray for one-third of the length from the tips and along the hind borders; wing-ribs piceous; veins black; poisers pale ferruginous. Length of the body 7 lines; of the wings 12 lines.

a. ———? From the Hardwicke bequest.

*ASILUS* *Vibulanus*, n. s., fem. *Niger, thoracis vittis tribus lateribusque ferrugineis, pectore cano, abdomine fusco fasciis pallidioribus, antennis nigris, pedibus piceis fulvo vittatis, alis subcineis apice fuscis.*

Head nearly as broad as the chest, covered with hoary down, clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; crown covered with ferruginous down, beset with a few black hairs on each side; front and clypeus covered with tawny down; clypeus armed with some long black and pale yellow bristles: eyes bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black bristles: feelers black; first and second joints covered with gray down, beset with short black bristles; second joint about half the length of the first; third joint spindle-shaped, as long as the first; bristle much larger than the third joint: chest black, clothed with short and long black hairs, beset on each side and behind with black bristles, adorned with three ferruginous stripes; middle stripe indistinct; side stripes connected by four oblique bands to the sides, which are also ferru-

ginous: breast hoary: abdomen dark brown, narrower than the chest, and much more than twice its length, tapering from the base to the tip, clothed with very short hoary hairs, beset on each side with a few long hoary hairs and bristles; hind borders of the segments pale brown; first and second segments very short; third and following segments long, successively decreasing in length; tip compressed, black, shining: legs piceous, clothed with short black hairs, armed with black spines; inner-side of thighs and of shanks mostly tawny; foot-cushions tawny: wings with a slight gray tinge, brown along the hind borders, and for one-third of the length from the tips; wing-ribs piceous; veins black; poisers tawny. Length of the body 11 lines; of the wings 16 lines.

a. ———? From Mr. Children's collection.

*ASILUS* Penarius, n. s., fem. *Fuscus, thoracis vittis tribus fulvis, pectore abdominis fasciis ventreeque canis, abdominis apice, antennis pedibusque nigris, alis limpidis.*

Head narrower than the chest, covered with pale tawny down, clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; crown with a few black hairs on each side; clypeus prominent, thickly armed with long white bristles, and having a few black bristles on the hinder part: eyes bronze; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: first and second joints of the feelers black, covered with gray down, beset with short black bristles; second joint much shorter than the first: chest brown, clothed with long and short black hairs, beset on each side and behind with some yellow and black bristles, adorned with three dull pale tawny stripes; middle stripe indistinct; side stripes connected with the sides by four oblique pale tawny bands; sides and breast hoary, with a tawny tinge: abdomen pale brown, narrower than the chest, and full twice its length, tapering from the base to the tip, which is black and shining, clothed with short pale yellow hairs, beset on each side of the hind borders of the segments with a few pale yellow bristles; sides and hind borders of the segments and under-side hoary; first and second segments very short; second segment arched, adorned with a cluster of white hairs and bristles on each side; third segment long, crossed by rows of black punctures, with some long whitish hairs on each side; following segments successively decreasing in length; under-side thinly clothed with long pale yellow hairs: legs black, thickly clothed with short pale tawny hairs, armed with black and white spines; foot-cushions tawny: wings colourless, reaching when closed nearly to the tip of the ab-

domen, slightly brown along the borders of the veins; wing-ribs ferruginous; veins black, piceous towards the base; poisers tawny. Length of the body  $8\frac{1}{2}$  lines; of the wings 13 lines.

a. ——— ?

*ASILUS Corythus*, n. s., fem. *Fuscus, thorace vittato, abdomine fusco-fulvo, apice nigro, antennis piceis basi ferrugineis, pedibus nigris, tarsis basi tibiisque ferrugineis alis subfuscis.*

Head a little narrower than the chest, covered with pale tawny down, thickly clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; crown furnished on each side with black bristles and white hairs; front clothed with white hairs; clypeus more thickly armed with long white hairs and black bristles: eyes bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi piceous, with ferruginous tips, clothed with long hoary hairs; first and second joints of the feelers beset with short black bristles; first joint ferruginous; second joint piceous, ferruginous at the base, about half the length of the first: chest dark brown, indistinctly striped, clothed with very short black hairs, beset on each side and behind with black bristles: breast gray, partly clothed with hoary hairs: abdomen brownish tawny, narrower than the chest, and much more than twice its length, tapering from the base to the tip, clothed with extremely short black, and towards the base with longer tawny hairs; first and second segments very short; third and following segments long, successively decreasing in length to the tip, which is black, shining, nearly cylindrical, and armed with a circle of short black spines: legs black, clothed with very short black hairs, armed with black spines; shanks ferruginous, piceous at the tips; feet ferruginous towards the base; foot-cushions tawny: wings light brown, reaching when closed a little beyond three-fourths of the length of the abdomen; wing-ribs piceous; veins black; poisers tawny. Length of the body  $9\frac{1}{2}$  lines; of the wings 13 lines.

a. ——— ? From Mr. Children's collection.

*ASILUS Tamphilus*, n. s., mas. *Fuscus, thoracis vittis tribus pallidioribus, lateribus pectoreque canis, abdominis segmentorum marginibus posticis cinereo-fulvis, antennis pedibusque nigris, tibiis basi rufis, alis subfuscis apice cinereis.*

Head narrower than the chest, covered with hoary down, clothed behind and beneath with white hairs, covered above and in front with dark tawny down, beset behind the eyes with a row

of black bristles; crown with black hairs on each side; clypeus thickly armed with long black bristles: eyes dark bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: first and second joints of the feelers black, beset with black bristles; second joint not half the length of the first: chest brown, clothed with short black hairs, beset on each side and behind with black bristles, adorned with three pale brown stripes, which are narrow and linear; sides and breast hoary, the former with a tawny tinge: abdomen dark brown, much narrower than the chest, and rather more than twice its length, tapering from the base to the tip, clothed with hoary hairs, beset on each side with a few tawny bristles; hind borders of the segments grayish tawny; first and second segments very short; second segment arched, adorned with a tuft of hoary hairs on each side; third and following segments long, successively decreasing in length: legs black, clothed with short pale yellow hairs, armed with black spines; four front shanks red towards the base; hind shanks piceous at the base; foot-cushions piceous: wings tinged with brown, gray at the tips, reaching when closed to the tip of the abdomen; wing-ribs piceous; veins black; poisers tawny. Length of the body 9 lines; of the wings 13 lines.

a. ———?

*ASILUS* Blasio, n. s., mas. *Niger, aureo pubescens, thoracis vittis quatuor nigris, abdomine nigro univittato, antennis nigris, pedibus rufis nigro variis, alis subfulvis apice cinereis.*

Body black: head narrower than the chest, covered with pale golden down, clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; crown grayish black, its sides covered with pale yellow down and clothed with black hairs; clypeus prominent, armed behind with black bristles, and in front with two longer and stouter black bristles and with white bristles and hairs: lips black; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs: feelers black; first and second joints clothed with black hairs; second joint club-shaped, more than half the length of the first; third joint spindle-shaped, longer than the first; bristle stout, tapering from the base to the tip, a little shorter than the third joint: chest and breast covered with golden down: chest thinly clothed with black hairs, beset on each side and behind with some black bristles, adorned with four black stripes, of which the middle pair are long and linear, the side pair are short, broad, and interrupted: abdomen

covered with golden down, clothed with yellow hairs, which are longer and thicker towards the base, very slightly tapering from the base to the tip, which is black and shining; a broad black stripe along the back; first and second segments very short; second segment arched; third and following segments long, successively decreasing in length: legs bright red, clothed with black and whitish hairs, armed with black spines; hips, knees, tips of shanks, and feet black; claws black, red at the base; foot-cushions tawny; tips of four hinder thighs black: wings rather short, slightly tawny, gray towards the tips, and thence along half the length of the hind borders; wing-ribs ferruginous; veins black, piceous at the base; poisers tawny. Length of the body 8 lines; of the wings 12 lines.

a. West Australia. From Mr. Clifton's collection.

*ASILUS* Balacrus, n. s., mas. *Fulvus, thoracis vittis quatuor fuscis, abdominis fasciis pallidioribus, antennis nigris, pedibus rufis nigro variis, alis subfulvis apice fuscis.*

Head black, as broad as the chest, clothed with tawny and black hairs, and beset with a row of black bristles behind, clothed beneath with white hairs; front and clypeus adorned with silvery down; clypeus very prominent, clothed behind with a few long black hairs, armed in front with a thick cluster of longer white hairs: eyes large, bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short pale yellow hairs; palpi black, beset with long black hairs: first and second joints of the feelers black, clothed with short black hairs; second joint slightly club-shaped, about half the length of the first: chest dark tawny, clothed with black hairs, beset on each side and behind with black bristles, adorned with four brown stripes, middle stripes narrow and linear, side stripes shorter and broader, and each interrupted by an oblique tawny band: breast tawny, with a gray tinge, partly clothed with black hairs: abdomen narrower than the chest and nearly twice its length, slightly tapering from the base to the tip, thinly clothed with black hairs; base and sides tawny; hind borders of the segments paler tawny; each side of the fourth and of the seventh segments armed with a few black bristles; first and second segments very short, the latter arched, covered with pale tawny down, adorned on each side with a cluster of tawny hairs; third and following segments long, but successively decreasing in length to the tip; sexual parts large, shining: legs red, thinly clothed with short tawny hairs, armed with black spines; feet black, clothed with short black hairs; thighs and hind shanks striped with black: wings with a slight tawny tinge, brown at the tips; wing-ribs ferruginous;

veins piceous, black towards the tips; poisers tawny. Length of the body 8 lines; of the wings 14 lines.

a. ——— ?

*ASILUS brevipennis?* Wied. *Auss. Zweif.* i. 431, 10.

a. Florida. Presented by E. Doubleday, Esq.

*ASILUS femoralis*, Wied. *Auss. Zweif.* i. 466, 61.

a. Egypt. Presented by Sir Gardner Wilkinson.

*ASILUS Antiphus*, n. s., mas. *Piceus, thorace fulvo vittis duabus nigris, abdomine antennis femoribusque nigris, pedibus fulvis, alis limpidis apicibus marginibusque posticis cinereo variis.*

Body piceous: head narrower than the chest, thinly clothed with yellow hairs, beset behind the eyes with black bristles; tubercle of the eyelets covered with black hairs; clypeus thickly beset with black bristles and with more and longer yellow bristles: eyes dark green; fore part nearly flat, not very distinct from the other part, but with rather larger facets: lip black, shining, clothed at the base with long, and at the tip with short yellow hairs; palpi black, and beset with black bristles: feelers black; first joint thickly clothed with black hairs; second joint rather more than half the length of the first; third joint spindle-shaped, as long as the first and the second; fourth and fifth joints like a bristle, nearly as long as the third: chest dark tawny, with two black stripes very near together, clothed with short black hairs, and beset on each side with black bristles: breast piceous, and clothed with yellow hairs: abdomen black, covered with dark tawny bloom, clothed with yellow hairs, tapering from the base to the tip, much narrower than the chest and about twice its length; segments from the third to the sixth successively and slightly decreasing in length; seventh segment much shorter than the sixth; eighth segment still shorter; ninth segment with the sexual parts shining: legs tawny, stout, clothed with tawny hairs and armed with black bristles; hips and thighs black, tips of the latter tawny; tips of the feet piceous; claws black, tawny at the base; foot-cushions tawny: wings colourless; disks of the areolets at the tips and along the hind borders gray; wing-ribs ferruginous; veins black, piceous towards the base, which is ferruginous; poisers tawny. Length of the body 8—10 lines; of the wings 14—16 lines.

a. Brazil.

**ASILUS Triopas**, n. s., mas. *Canus, thoracis vittis quatuor cinereis, abdomine fulvo, antennis femoribusque nigris, pedibus fulvis, alis subfuscis, venarum marginibus apice limpidis.*

Body hoary: head a little narrower than the chest, clothed with pale yellow hairs, beset with a row of black bristles behind the eyes, and with a few black hairs on the crown; clypeus armed behind with black bristles, and in front with more and longer pale yellow bristles; sides of the front pale tawny: eyes black; fore part nearly flat, not very distinct from the other part, and with but little larger facets: lip black, shining, clothed at the base with long, and at the tip with short yellow hairs: feelers black; first joint thickly clothed with longer yellow hairs and black bristles; second joint clothed with short yellow hairs, much shorter than the first; third joint spindle-shaped, nearly as long as the first and the second; fourth and fifth joints like a bristle, as long as the third: chest with four indistinct dark gray stripes, clothed with black hairs, and beset on each side and behind with black bristles: breast with a few pale yellow hairs: abdomen dark tawny, rather paler beneath, tapering from the base to the tip, much narrower than the chest, and about twice its length; segments from the third successively decreasing in length: legs tawny, clothed with pale yellow hairs, and beset with black bristles; hips and thighs black; claws black, tawny at the base; foot-cushions tawny: wings light brown; areolet towards the tips with colourless borders: wing-ribs ferruginous; veins black, piceous at the base; poisers tawny. Length of the body  $7\frac{1}{2}$  lines; of the wings 13 lines.

a. ———?

**ASILUS Alastor**, n. s., mas. *Cinereus, thoracis vittis duabus latis albidis, pectore albo, abdomine cano unifasciato apiceque pilis argenteis ornato, antennis nigris, pedibus cinereis, alis limpidis.*

Body dark gray: head as broad as the chest, clothed behind and beneath with white hairs, furnished with a few black hairs on the crown; clypeus thickly armed with long white bristles: eyes large, dark bronze; fore part nearly flat, its facets rather large: lip and palpi black, the latter clothed with short black bristles; first and second joints of the feelers black, and clothed with black hairs; second joint shorter than the first: chest with two broad whitish stripes on the disk, clothed with short black hairs, and beset on each side with black bristles: breast white, and thinly clothed with white hairs: abdomen tapering from the base to the tip, rather narrower than the chest, and much more than twice its length, clothed with short black hairs, adorned with a broad hoary band just beyond the middle, and with a tuft of silvery white hairs at the tip: legs dark

gray ; hips hoary ; thighs armed beneath with black spines ; shanks and feet beset with black bristles ; claws black ; foot-cushions piceous : wings colourless, not reaching when closed beyond two-thirds of the length of the abdomen ; wing-ribs piceous ; veins black, piceous at the base ; poisers piceous. Length of the body 9 lines ; of the wings 10 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS* Elva, n. s. *Fuscus, pectore cinereo, abdomine nigro fasciis fulvis, subtus piceo fasciis ferrugineis, antennis pedibusque nigris, tibiis piceis, alis cinereis.*

Body pale brown, with a tawny tinge : head much narrower than the chest, thickly beset above, behind, and on the clypeus with black bristles, furnished on each side of the front with a few pale yellow hairs, clothed beneath with piceous hairs : eyes black ; fore part quite flat, composed of larger facets, and very distinct from the other part : lip black, clothed at the base with long, at the tips with short pale yellow hairs ; palpi black, and clothed with black hairs : feelers black ; first and second joints thickly beset with black bristles, dark ferruginous at the tips ; second joint much shorter than the first ; third joint oval, as long as the first, and much broader : chest clothed with short black hairs, and beset on each side and behind with black bristles : breast gray : abdomen black, clothed with short black hairs, tapering from the base to the tip, hardly narrower than the chest at the base and much less than twice its length ; hind borders of the segments dull tawny, and clothed with short yellow hairs ; sides beset with black bristles and stout black hairs ; under-side piceous ; hind borders of the segments dark ferruginous : legs black, thickly clothed with black hairs, and beset with some black bristles ; shanks and under-side of the feet piceous ; claws black ; foot-cushions yellow : wings dark gray ; wing-ribs and veins piceous, the latter black towards the tips ; poisers dark tawny. Length of the body  $6\frac{1}{2}$  lines ; of the wings 9 lines.

a. North Bengal. From Miss Campbell's collection.

*ASILUS* Coras, n. s., fem. *Canus, thoracis vittis quatuor cinereo-fuscis, abdomine fusco apice nigro, segmentorum marginibus posticis ventrequae fulvis, antennis nigris, pedibus ferrugineis, alis subcinereis.*

Head covered with dull pale tawny down, behind and beneath with hoary down ; sides of the crown beset with black hairs ; clypeus armed with long white bristles, and in front with a few black bristles : eyes dark bronze ; fore part slightly convex, its facets very little larger than those of the other part : lip black, clothed at the



tip with short tawny hairs; palpi black, clothed with long pale yellow hairs: feelers black, covered with gray down; first and second joints beset with short black bristles; second joint much shorter than the first; third joint spindle-shaped, as long as the first; bristle stout, as long as the third joint: chest and breast hoary: chest clothed with very short black hairs, beset on each side and behind with black bristles; nearly the whole of its disk occupied by four broad incomplete grayish brown stripes: abdomen brown, hardly narrower than the chest, about twice its length, tapering from the base to the tip, which is black, shining, and armed with a circlet of short black spines, clothed with short pale yellow hairs, and towards the base with longer and paler hairs; under-side and hind borders of the segments dull tawny; first and second segments very short; third and following segments long, successively decreasing in length: legs ferruginous, clothed with short whitish hairs, armed with black and white spines; hips gray; thighs and claws black: foot-cushions tawny; wings light gray; wing-ribs and veins piceous; poisers tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 11 lines.

a. ———? From Mr. Children's collection.

*ASILUS* Halmus, n. s., fem. *Fusco-fulvus, thoracis vittis quatuor fuscis, abdomine cinereo-fulvo, segmentorum marginibus posticis ventrique cinereis, apice nigro compresso, antennis nigris, articulo 3<sup>o</sup> basi fulvo, pedibus nigro-cinereis, tibiis apice fulvis, alis subfulvis, apicibus marginibusque posticis cinereis.*

Head almost as broad as the chest, covered with white down, clothed behind and beneath with hoary hairs, beset behind the eyes with a row of black bristles; sides of the crown furnished with black hairs; front and clypeus covered with yellow down; clypeus armed with some black bristles and with a cluster of longer pale yellow bristles: eyes black; fore part slightly convex, its facets larger than those of the other part: lip and palpi black, the latter beset with long black hairs: feelers black; first and second joints beset with black hairs; second joint club-shaped, much shorter than the first; third joint spindle-shaped, tawny at the base, as long as the first; bristle stout, about half the length of the third joint: chest brownish tawny, thinly clothed with short black hairs, beset on each side and behind with some black bristles, adorned with four brown stripes; middle pair long and linear; side pair short and broad: breast hoary: abdomen dull grayish tawny, thinly clothed with very short black hairs, narrower than the chest and much more than twice its length, tapering from the base to the tip; first and second joints very short; second joint adorned on each side with a cluster of long

hoary hairs and with one or two white bristles; third and following joints long, successively decreasing in length; tip compressed, black and shining; hind borders of the segments and under-side gray: legs gray, clothed with very short pale yellow hairs, armed with black spines; hips and thighs black; tips of the thighs tawny; tips of shanks and of feet black; claws black, reddish tawny at the base; foot-cushions tawny: wings slightly tawny, gray at the tips and along the hind borders; wing-ribs ferruginous; veins black, ferruginous at the base; poisers tawny. Length of the body 7 lines; of the wings 10 lines.

a. ——— ?

*ASILUS Amazænes*, n. s., fem. *Cinereus, pectore cano, antennis nigris, pedibus cinereis, tibiis tarsisque nigro-fulvis, alis limpidis.*

Body black: head narrower than the chest, clothed behind and beneath with white hairs and on the crown with a few black hairs; front and clypeus very thickly covered with long pale yellow hairs: eyes very dark bronze; fore part slightly convex, its facets hardly larger than those of the other part: lip and palpi black, the latter beset with black bristles: first and second joints of the feelers black, beset with short black hairs; second joint much shorter than the first: chest gray, clothed with short black hairs, and having some white hairs and black bristles on each side: breast hoary, thinly clothed with white hairs: abdomen gray, tapering from the base to the tip, narrower than the chest and about twice its length, clothed with white hairs, which form a cluster on each side at the base; segments from the third very slightly decreasing in length: legs black, covered with a gray bloom and clothed with white hairs; thighs armed with some yellow spines; shanks and feet with a dark tawny tinge, beset with black and pale yellow spines; claws black; foot-cushions tawny: wings colourless, when closed not reaching the tip of the abdomen; wing-ribs and veins piceous; poisers dark tawny. Length of the body 8 lines; of the wings 11 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS Aphellas*, n. s., mas. *Cinereus, pectore abdomineque canis, antennis nigris, pedibus cinereis, tibiis ferrugineis, tarsis piceis, alis limpidis.*

Head brown, narrower than the chest, clothed behind and beneath with white hairs, and having a few black hairs on the crown; front and clypeus most thickly clothed with long yellowish white hairs: eyes dark bronze; fore part slightly convex, its facets not much larger than elsewhere: lip and palpi black, the latter beset

with black bristles: feelers black; first and second joints clothed with long black hairs; second joint shorter than the first; third joint long, spindle-shaped; bristle shorter (?) than the third joint: chest gray, clothed with short yellowish white hairs, and beset on each side with long black and pale yellow bristles: breast hoary: abdomen hoary, clothed with short white hairs, which form a tuft on each side at the base, tapering from the base to the tip, hardly twice the length of the chest; segments from the third successively decreasing in length: legs gray, clothed with white hairs, and beset with pale yellow spines, which are most frequent on the shanks and on the feet; shanks ferruginous; feet piceous; claws black, ferruginous at the base; foot-cushions pale tawny: wings colourless; wing-ribs piceous; veins black; fore border veins ferruginous; poisers tawny. Length of the body 6 lines; of the wings 10 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS* Noas, n. s., fem. *Cinereo-fulvus, capite albo, pectore cinereo, antennis nigris, pedibus cinereis, tibiis ferrugineis, alis limpidis.*

Body grayish tawny: head white, very little narrower than the chest, clothed behind and beneath with white hairs, beset behind the eyes with a row of tawny bristles; crown covered with a few black hairs: clypeus with a very thick tuft of long pale yellow hairs: eyes brassy; fore part flat, composed of large facets: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: first and second joints of the feelers black, clothed with black hairs; second joint club-shaped, shorter than the first: chest clothed with short white hairs and beset on each side with a few tawny bristles: breast gray, almost hairless: abdomen a little narrower than the chest and nearly twice its length, tapering from the base to the tip, clothed with short white hairs and beset with one or two white bristles on the sides of the hind border of each segment; first and second segments short; third and following segments long, but successively decreasing in length: legs gray, clothed with white hairs and beset with pale yellow spines; shanks dark ferruginous; claws black; foot-cushions tawny: wings colourless; wing-ribs dark ferruginous; veins black, ferruginous along the fore borders; poisers tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 11 lines.

a. South Africa. Presented by Dr. A. Smith.

**ASILUS** Issé, n. s., mas. *Fusco-fulvus, thorace fasciculis flavis, pectore cinereo-fulvo, abdomine subtus cano, antennis nigris, pedibus piceis, tibiis ferrugineis, alis subcinereis.*

Body brownish tawny: head a little narrower than the chest, clothed behind and beneath with pale yellow hairs, beset behind with black bristles; crown covered with a few black hairs: front and clypeus covered with yellow down; clypeus thickly armed with long pale yellow bristles, among which are a few long black hairs: eyes dark bronze; fore part nearly flat, its facets very little larger than those of the other part: lip black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black: chest thinly clothed with short whitish hairs, and beset with long black bristles on each side and behind, where there is a short stripe of tufts of yellow hair: breast grayish tawny: abdomen with a hoary tinge on the under-side, tapering from the base to the tip, much narrower than the chest and rather less than twice its length, clothed with short white hairs; segments from the third successively decreasing in length, each with some black punctures along the fore border and with a few whitish bristles on each side of the hind border: legs piceous, stout, rather thickly clothed with yellowish white hairs and beset with pale yellow spines: thighs thick; shanks dark ferruginous; feet armed with piceous spines; claws black; foot-cushions tawny: wings with a slight gray tinge, reaching when clothed to three-fourths of the length of the abdomen; wing-ribs ferruginous; veins black, ferruginous at the base and along the fore borders; poisers tawny. Length of the body  $7\frac{1}{2}$  lines; of the wings 10 lines.

a. South Africa. Presented by Dr. A. Smith.

**ASILUS** Abuntius, n. s., fem. *Cinereo-niger, thorace pilis nigris hirtis, pectore fulvo, abdomine pilis albis vestito, antennis nigris, pedibus cinereo-nigris, alis limpidis, venis transversis flavo-fusco subnebulosis.*

Body grayish black: head narrower than the chest, clothed behind and beneath with yellowish white hairs, beset behind with black bristles, thinly clothed on the crown with black hairs, adorned with a stripe of yellow down on each side of the front; clypeus thickly beset with golden hairs: eyes brassy; fore part slightly convex, its facets a little larger than those of the other part: lip and palpi black, the latter beset with black hairs: feelers black; first and second joints clothed with black hairs; second joint club-shaped, shorter than the first; third joint spindle-shaped, longer than the first and the second joints: chest thickly clothed with short black hairs and beset on each side with black bristles: breast dull tawny,

gray on each side, clothed here and there with white hairs: abdomen narrower than the chest and twice its length, tapering from the base to the tip, thinly clothed with short white hairs, and beset with one or two white bristles on the sides of the hind border of each segment: legs grayish black, clothed with short white hairs and with some short white spines; claws black; foot-cushions pale ferruginous: wings colourless; cross-veins slightly clouded with yellowish brown; wing-ribs piceous; veins black, dark ferruginous at the base; poisers tawny. Length of the body 7—8 lines; of the wings 10—12 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS* PARON, n. s., mas. *Fuscus, capite pilis albis nigrisque vestito, thorace vittis duabus maculisque nonnullis nigris, abdomine pilis flavis canisque vestito subtus cano, antennis pedibusque nigris, tibiis rufis, alis subfuscis.*

Body pale brown: head a little narrower than the chest, hoary and clothed with white hairs behind and especially beneath, clothed on the crown with a few black hairs, and beset behind the eyes with some black bristles; front thickly clothed with long black bristles; clypeus more thickly covered with longer white bristles: eyes coppery; fore part slightly convex, its facets but little larger than those of the other part, from which it is not easy to be distinguished: lip black, its tip clothed with tawny hairs: feelers black; first and second joints linear, beset with black hairs; second joint much shorter than the first: chest rather thickly clothed with black bristles, and having two narrow black stripes close together, and on each side of them some blackish spots; the bristles on the hind part of the chest are longer and more numerous than those on the fore part, and the scutcheon is armed with three stouter bristles: breast and abdomen a little paler than the chest: abdomen clothed with pale yellow and hoary hairs, much narrower than the chest and rather less than twice its length, hoary beneath; third, fourth and fifth segments long; sixth and following segments shorter: legs black, covered with gray bloom and clothed with long pale yellow hairs; thighs and shanks beset with some black spines; thighs rather thick; shanks red, black beneath and towards the tips; feet thickly armed with black spines; claws black; foot-cushions tawny: wings very slightly tinged with brown, widened and very convex on the fore border at two-thirds of the length; wing-ribs and veins piceous, the latter black towards their tips; poisers tawny. Length of the body 8 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

*ASILUS Jacksonii*, Macq. *Dipt. Exot.* i. 2, 145, 25.

a. New Holland. Presented by the Haslar Hospital.

*ASILUS Lecythus*, n. s., mas. et fem. *Fuscus*, *thoracis vittis tribus lateribus pectoreque fulvis*, *abdomine*, *mari. fulvo-cinereo apice nigro*, *fem. fulvo*, *antennis pedibusque nigris*, *femoribus apice fulvis*, *tibiis tarsisque fulvis apice nigris*, *alis limpidis apice sub-fuscis*.

Body brown: head as broad as the chest, dark tawny on the crown, pale tawny in front towards the clypeus, which is hoary, and armed behind with a few black bristles, and on the fore part with more and longer white bristles; hind head and under-side also hoary and clothed with white hairs, the former beset with a row of black bristles: eyes dark bronze; fore part very slightly convex, not very distinct from the other part, but composed of rather larger facets: lip black, shining, clothed at the base with long, and at the tip with short pale tawny hairs: feelers black; first and second joints beset with short black bristles; second joint much shorter than the first; third joint spindle-shaped, hardly longer than the first; fourth and fifth joints like a bristle, but stouter than usual, and about half the length of the third: chest with three tawny stripes, clothed with black hairs, and beset on each side and behind with black bristles; sides and breast dark tawny: abdomen gray, with a dark tawny tinge, decreasing in breadth from the base to the tip, clothed with pale yellow hairs, narrower than the chest, and about twice its length; segments from the third to the eighth successively decreasing in length; ninth segment longer than the eighth, black, shining, ferruginous beneath: legs tawny, clothed with yellow hairs and beset with some black bristles, which are most thick on the feet; hips and thighs black; hips clothed with tawny down; thighs with tawny tips; tips of the shanks and of the feet black; each shank with a black stripe; hind shanks sometimes black, with tawny tips; claws black, tawny at the base; foot-cushions dark tawny: wings colourless, light brown at the tips; disks of some of the areolets in the middle and along the hind border also pale brown; wing-ribs ferruginous; veins black, piceous towards the base, where they are ferruginous; poisers tawny. *Female*.—Abdomen dark tawny, tapering from the base to the tip, about thrice the length of the chest; segments from the third to the eighth successively decreasing in length; ninth segment slender, black, shining, longer than the eighth. Length of the body  $6\frac{1}{2}$ —9 lines; of the wings 8—10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**ASILUS** Agrius, n. s., mas. *A. Lecythi*, var.? *Fulvus*, *pectore cano*, *abdomine flavo-fusco sericeo vittis tribus nigris*, *antennis nigris*, *articulo 3<sup>o</sup> basi fulvo*, *pedibus fulvis*, *femoribus nigris*, *tibiis piceo cinctis apiceque piceis*, *tarsorum articulis apice piceis*, *alis limpidis apicibus marginibusque posticis cinereis*.

Body tawny: head nearly as broad as the chest, thickly clothed behind and beneath with yellow hairs, beset with black bristles along the upper borders of the eyes; crown and tubercle of the eyelets covered with a few black hairs; front and clypeus covered with shining yellowish white down, the latter prominent, and beset with black bristles behind and with white bristles in front: eyes very dark bronze; fore part nearly flat, with facets larger than those of the other part: feelers black, as long as the head; first joint linear; second joint club-shaped, much shorter than the first; third joint much longer than the first and the second, tawny at the base, linear for two-thirds of the length, and tapering thence to the tip; fourth and following joints forming a spine, which is nearly half the length of the third: lip black, clothed at the tip with short tawny hairs; palpi black, beset with black hairs: chest very thinly clothed with short tawny hairs, and beset on each side with long black bristles; its disk black: breast with a hoary tinge, furnished with very few yellow hairs: abdomen silky yellowish brown, tapering from the base to the tip, narrower than the chest and rather more than twice its length, clothed with short yellow hairs, beset on the sides of the hind border of each segment with two or three tawny bristles, adorned with three irregular black stripes, which are interrupted on the hind borders of the segments: fore border of each segment, and especially of the third, with a cross row of black punctures; first segment very short; second segment short, very convex, most thickly clothed on each side with white hairs, and beset with a few tawny and black bristles; third segment long; the following segments successively decreasing in length; eighth segment shorter than the seventh; ninth segment extremely short; appendages large, black: legs tawny, thickly clothed with short bright tawny hairs, and beset with some black bristles, which on the shanks are more numerous than on the thighs, but less so than on the feet; hips and thighs black, tips of the latter ferruginous; shanks with a piceous band in the middle, their tips and the tips of the joints of the feet are also piceous; claws black, tawny at the base; foot-cushions tawny: wings colourless, gray at the tips and along the hind borders; in the middle of the wing the gray appears only on the disks of the areolets, but it colours the whole of them on the borders; wing-ribs dark ferruginous; veins black, piceous towards the base; poisers tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 10 lines.

a. ——— ?

*ASILUS apicalis*, Wied. *Dipt. Exot.* i. 191, 16. *Auss. Zweif.* i. 443, 28.

a. Nova Scotia. From Lieut. Redman's collection.

In a fly of this species the little cross-vein in the middle of one wing is double.

*ASILUS Sadyates*, n. s., fem. *Fuscus, thorace fulvo trivittato, lateribus metathorace pectoreque canis, abdomine nigro, fasciis ventrique cinereis, antennis pedibusque nigris, tibiis tarsorumque articulis apice fulvis, alis limpidis, apicibus marginibusque posticis cinereis.*

Body brown : head as broad as the chest, covered with shining pale tawny down, clothed behind and beneath with white hairs, furnished with a row of black hairs on the crown, and beset behind the eyes with a row of black bristles ; clypeus armed behind with many black bristles, and in front with a few pale yellow bristles : eyes dark bronze ; fore part flat, quite distinct from the other part and with much larger facets : lip black, shining, clothed at the base with long, and at the tip with short pale yellow hairs ; tongue ferruginous at the tip : feelers black ; first and second joints clothed with short black bristles ; second joint hardly half the length of the first ; third joint slightly spindle-shaped, shorter than the first and the second ; fourth and fifth joints forming a bristle, which is shorter than the third : chest covered with bright tawny down, which forms three stripes on the back, thinly clothed with short black hairs, and beset on each side and behind with black bristles : breast, hind chest, and sides of the chest hoary : abdomen black, tapering from the base to the tip, clothed with short black hairs, and at the base with some longer hoary hairs, slightly shining, a little narrower than the chest, and more than twice their length ; under-side, sides, and hind borders of the segments gray ; segments from the third to the seventh decreasing in length ; eighth and ninth segments shining, quite black ; ninth segment longer than the eighth : legs black, clothed with short yellow hairs and beset with black bristles of various length ; tips of the shanks and of the joints of the feet tawny ; fore shanks tawny, with black tips, and clothed as well as the fore feet with bright tawny down ; claws black ; foot-cushions dull tawny : wings colourless, gray at the tips and along the hind borders ; wing-ribs ferruginous ; veins black, piceous at the base ; poisers tawny. Length of the body 7 lines ; of the wings 10 lines.

a. Ohio. Presented by the Entomological Club.



**ASILUS** *Alethes*, n. s., mas. et fem. *Fuscus, thoracis vittis tribus lateribus pectoreque pallidioribus, abdominis fasciis cinereis apice nigro, antennis pedibusque nigris, tibiis tarsorumque articulis basi ferrugineis, alis limpidis, apicibus marginibusque posticis cinereis.*

*Male*.—Body dark brown: head a little narrower than the chest, furnished with a few black hairs on the crown, beset behind with black bristles, clothed beneath with pale yellow hairs; clypeus beset with black bristles behind and with pale yellow bristles in front: eyes black; fore part flat, distinct from the other part and with larger facets: lip black, shining, clothed at the base with long, and at the tip with short pale tawny hairs; palpi black, beset with long black bristles: feelers black; first and second joints beset with black bristles; second joint much shorter than the first; third joint spindle-shaped, longer than the first and the second; fourth and fifth joints like a bristle, which is much shorter than the third: chest with three paler stripes, beset on each side and behind with black bristles; sides and breast paler: abdomen clothed at the tip with yellow hairs, and towards the base with yellow bristles, narrower than the chest, and a little more than twice its length; sides and hind borders of the segments gray; third, fourth, and fifth segments long and of equal length; sixth and following segments shorter; tip black, shining: legs black, clothed with short yellow hairs, and beset with some black bristles of various length, most thick on the feet; shanks and each joint of the feet ferruginous at the base; first joint of the four front feet mostly ferruginous; claws black, ferruginous at the base; foot-cushions tawny: wings colourless, gray at the tips and along the hind borders; wing-ribs ferruginous; veins black, piceous towards the base; foot-cushions ferruginous; poisers tawny. *Female*.—Abdomen tapering from the base to the tip, about thrice the length of the chest; segments from the third to the eighth successively decreasing in length; ninth segment slender, black, shining, narrower than the eighth: hind feet, and nearly the whole of the other feet quite black. Length of the body 7—8 lines; of the wings 10—12 lines.

a. New York. Presented by the Entomological Club.

**ASILUS** *Antimachus*, n. s. *Fuscus, flavo pilosus, thoracis vitta unica pallida lateribus pectoreque albido-fulvis, abdomine apice nigro, pedibus ferrugineis, alis limpidis, apicibus marginibusque posticis subfuscis.*

Body brown: head as broad as the chest, clothed with pale tawny down, thickly covered behind with pale yellow hairs and some

black bristles; crown furnished with a few black hairs; under-side thickly clothed with white hairs; clypeus armed with a thick tuft of pale yellow bristles: eyes dark bronze; fore part flat, very distinct from the other part and with larger facets: lip black, shining, clothed at the base with long, and at the tip with short yellow hairs: feelers black; first and second joints beset with black bristles: chest with a slender indistinct pale stripe, clothed with short black hairs, beset with black bristles on each side; sides and breast whitish tawny: abdomen compressed, tapering from the base to the tip, thinly clothed with short yellow hairs, and on the hind borders of the segments with yellow bristles, much narrower than the chest and nearly thrice its length; segments from the third to the fifth long, and of equal length; sixth joint shorter; seventh joint still shorter; eighth joint as long as the seventh; ninth joint longer, black, slender, shining: legs ferruginous, clothed with short yellow hairs, and beset with some stout black bristles of various length; hips whitish tawny, and clothed with white hairs: thighs furnished with some long pale yellow hairs; feet more thickly armed with bristles; claws black; foot-cushions pale brown: wings colourless, pale brown towards the tips, and on the disks of the segments along the hind borders for half the length from the tips; wing-ribs ferruginous; veins black, piceous towards the base, where they are ferruginous; poisers tawny. Length of the body  $8\frac{1}{2}$  lines; of the wings 12 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*ASILUS* Paropus, n. s., fem. *Flavo-fuscus, thoracis lateribus pectoreque canis, abdomine apice nigro, antennis nigris, pedibus flavis, femoribus apice nigris basi fasciisque fulvis, alis cinereis basi limpidis.*

Head as broad as the chest, clothed with pale yellow down, furnished behind with yellow hairs, and with a row of black bristles along the rims of the eyes; crown beset with some black hairs; clypeus armed with black bristles behind, and with white bristles in front: eyes black; fore part slightly convex, hardly distinct from the other part, and its facets are not much larger: lip black, shining: feelers black; first and second joints beset with black bristles; third joint spindle-shaped, a little longer than the first and the second; fourth and fifth joints slender, not one-third of the length of the third: chest yellowish brown, furnished with some black hairs; sides and breast hoary, the former beset with black bristles: abdomen yellowish brown, clothed with very short yellow hairs, and towards the tip with long black hairs, narrower than the chest, and more than twice its length; third, fourth, and fifth segments long,

and of equal length; sixth segment a little shorter; seventh and eighth segments still shorter; ninth segment longer, compressed, slender, black, shining: legs yellow, clothed with short yellow hairs, and beset with black bristles of various length, and most thick on the feet; tips of the thighs tawny; shanks tawny at the base; fore and middle shanks with a broad tawny band; first joint of the feet tawny, with a black tip; second and following joints tawny at the base; claws black, ferruginous at the base; foot-cushions pale brown: wings gray, colourless at the base and along the fore border for half the length and on some parts of the disk; wing-ribs ferruginous; veins black, piceous towards the base, where they are ferruginous; poisers tawny. Length of the body 7 lines; of the wings 10 lines.

a. New York. Presented by E. Doubleday, Esq.

*ASILUS ORPHNE*, n. s., fem. *Cinereus, thoracis vittis tribus canis, abdomine apice nigro, antennis pedibusque nigris, tibiis flavis apice nigris, tarsis basi piceis, alis limpidis.*

Body gray: head as broad as the chest, covered above with yellow down, covered behind with tawny hairs, and more thickly beneath with pale yellow hairs; crown and front of the head furnished with some black hairs; clypeus adorned with a thick tuft of shining pale yellow hairs: eyes dark green; front part slightly convex, its facets rather larger than those of the other part, but they all blend with each other in size, and the bounds of the two parts are indistinct: lip black, clothed at the base with long yellow hairs and at the tip with short yellow hairs; palpi black, beset with black bristles: feelers black; first and second joints beset with black bristles; second joint about half the length of the first, tawny at the tip; third joint spindle-shaped, as long as the first and the second joints; fourth and fifth joints slender, a little shorter than the third joint: chest with three hoary stripes, beset on each side and behind with black bristles: abdomen tapering from the base to the sixth segment, thinly clothed with short white hairs and at the base with long yellow hairs, narrower than the chest and rather less than thrice its length; sixth and following segments black and shining; seventh, eighth and ninth segments long, compressed, slender, forming a tail: legs black, clothed with yellow hairs and beset with some black bristles, which are thickest and most numerous on the feet; shanks bright yellow, with black tips; feet tawny at the base; claws black; foot-cushions pale brown: wings quite colourless; wing-ribs ferruginous; veins black, piceous towards the base, where they are

ferruginous; poisers tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 11 lines.

a. New York. Presented by the Entomological Club.

In a fly of this species the little cross-vein in the middle of one wing is double.

*ASILUS Cœdicius*, n. s., fem. *Cinereus, thoracis vittis quatuor canis, pectore albo, abdominis lateribus ventrequè canis, antennis nigris, pedibus fulvis, femoribus cinereis, alis subcinereis.*

Body hoary: head nearly as broad as the chest, covered with silvery down, thickly clothed behind and beneath with white hairs; crown beset with a few black hairs; front furnished with a few white hairs; clypeus prominent, armed with tawny and black bristles: eyes bronze; fore part slightly convex, its facets rather larger than those of the other part: feelers black; first and second joints beset with black hairs; second joint slightly club-shaped, about half the length of the first: third joint slightly tapering from the base to the tip, as long as the first; bristle nearly as long as the third joint: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with black hairs: chest gray, with indistinct hoary stripes, thinly clothed with black hairs, beset on each side and behind with black bristles: breast white: abdomen gray, narrower than the chest and more than twice its length, slightly tapering from the base to the tip, thinly clothed with hoary hairs, hoary beneath and on the sides of the segments of the back; first and second segments short; second segment arched, adorned with a tuft of hairs on each side; third and following segments long; tip black, shining, compressed: legs gray, thinly clothed with short black hairs, armed with black spines; shanks tawny, darker towards the tips; feet dark tawny, with piceous tips; claws black; foot-cushions tawny: wings with a slight gray tinge; wing-ribs piceous; veins black; poisers tawny. Length of the body 5— $5\frac{1}{2}$  lines; of the wings 8—9 lines.

a. New Holland. Presented by the Haslar Hospital.

*ASILUS varius*, White, Zool. Voy. *Erebus and Terror*. Mas. *Fuscus, capite fulvo, thoracis vittis tribus fasciis utrinque duabus obliquis lateribus pectoreque flavo-albis, abdominis segmentorum marginibus posticis flavis, ventre fulvo, antennis pedibusque nigris, tibiis rufis, alis limpidis.*

Body dark brown: head tawny, as broad as the chest, clothed behind and beneath with white hairs, and above with black hairs, beset with black bristles along the upper hind borders of the eyes; front clothed with golden down; clypeus thickly beset with black bristles: eyes dark red; fore part flat, composed of larger facets

than is the other part: lip black, shining, clothed at the tip with short tawny hairs: palpi black, beset with black bristles: feelers black; first and second joints thickly clothed with black hairs; second joint club-shaped, much shorter than the first; third joint with a piceous tinge, tapering from the base to the tip, rather longer than the first and the second joints; fourth and following joints forming a bristle, which is a little shorter than the third joint: chest adorned with three bright yellowish white stripes; middle stripe very slight and indistinct; side stripes joined by two oblique bands with the sides of the chest, which, like the breast, are also bright yellowish white; sides and side stripes beset with long black hairs and bristles; scutcheon and hind chest pale tawny: abdomen thinly clothed with short tawny hairs; hind borders of the segments pale bright yellow, clothed on each side towards the base with tawny bristles; first and second segments very short; third and following segments long, but successively decreasing in length; appendages at the tip very large, black, shining, clothed with tawny and black hairs and with some black bristles; under-side tawny: legs black, thick, clothed with short ferruginous hairs and beset with stout black spines; shanks red, with black tips; claws black; foot-cushions dull tawny: wings colourless, with very slight tawny streaks along the veins, gray at the tips and on the disks of the areolets along the hind borders; wing-ribs and veins black; poisers yellow. *Fem.*—Abdomen full twice the length of the chest; segments from the seventh to the ninth compressed, black, shining: tips of the wings paler than those of the male. Length of the body  $6\frac{1}{2}$ — $8\frac{1}{2}$  lines; of the wings 11—12 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

b. New Zealand. From Mr. Earl's collection.

*ASILUS flavicornis*? *Macq. Dipt. Exot. i. 2, 142, 17.*

a. N. India. From Mr. L. James's collection.

*ASILUS* Antilco, n. s., fem. *Cinereus, capite fulvo, thoracis vittis tribus lateribus pectoreque canis, abdominis apice nigro attenuato, antennis pedibusque nigris, tibiis fulvis apice nigris, alis limpidis.*

Body gray: head full as broad as the chest, pale tawny in front and behind, and thickly clothed there with short white hairs, beset behind the eyes with a row of black bristles; crown covered with a few black hairs; clypeus beset with black hairs and black bristles and with a very few white bristles: eyes large, dark bronze; fore part nearly flat, its facets very little larger than those of the other part: lip and palpi black, the latter and the tips of the former

clothed with tawny hairs: feelers black, full as long as the head; first and second joints clothed with black hairs; second joint cup-shaped, shorter than the first, which is linear; third joint spindle-shaped, as long as the first and the second joints; fourth and following joints like a bristle, which is longer than the third joint: chest with three indistinct hoary stripes, thinly clothed with short black hairs and beset on each side and behind with black bristles: breast and sides of the chest hoary, thinly clothed with short white hairs: abdomen compressed, much narrower than the chest and more than twice its length, thinly clothed with white hairs; first and second segments short; second segment very convex; third and following segments long; last segment black, shining, very long, like a tail: legs black, clothed with very short black hairs and beset with black spines; shanks tawny, with black tips; claws black, tawny at the base; foot-cushions dull tawny: wings colourless; wing-ribs piceous; veins black; poisers tawny. Length of the body 8 lines; of the wings 11 lines.

a. Port Stephen, New Holland. Presented by the Earl of Derby.

*ASILUS* Echepolis, n. s., mas. *Cinereus, thoracis vittis tribus nigris, abdominis segmentorum marginibus posticis canis, antennis nigris apice fulvis, pedibus fulvis, femoribus nigris, tibiis apice piceis, tarsis nigris apice piceis, alis limpidis.*

Head narrower than the chest, covered with hoary down, clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; crown beset on each side with black hairs; front and clypeus covered with yellow down; clypeus thickly armed with black bristles: eyes dark bronze; fore part flat, its facets rather larger than those of the other part; lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: feelers black; first and second joints beset with long black hairs; second joint not half the length of the first; third joint tawny, tapering from the base to the tip, as long as the first; bristle rather stout, a little longer than the third joint: chest and breast gray: chest thickly clothed with rather long black and hoary hairs, beset on each side and behind with black bristles, adorned with three black stripes; middle stripe slender, linear; side stripes shorter and broader: abdomen black, shining, narrower than the chest and full twice its length, slightly tapering from the base to the tip, thickly clothed with long hoary hairs, beset with some black bristles on the sides of the hind borders, which are hoary; first and second segments very short; third and following segments long, successively decreasing in length: legs bright tawny, clothed with short black and longer hoary hairs, armed with black bristles; hips and thighs

black; tips of shanks piceous; feet black, tawny at the base; foot-cushions piceous: wings colourless; wing-ribs piceous; veins black; poisers pale tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 8 lines.

a. ——— ?

**ASILUS** Thimbro, n. s., mas. et fem. *Fulvus, thoracis vittis quatuor obscurioribus, lateribus pectoreque canis, abdominis segmentorum marginibus posticis cinereo-fulvis, antennis fulvis apice piceis, pedibus fulvis, alis limpidis, apicibus marginibusque posticis cinereis.*

*Male.*—Head as broad as the chest, covered with white down, clothed behind and beneath with white hairs; crown covered with tawny down, beset on each side with a few black hairs; front and clypeus covered with pale yellow hairs; clypeus armed with long pale yellow bristles: eyes dark reddish bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi red, beset with long tawny hairs: feelers tawny; first and second joints beset with short black bristles; second joint about half the length of the first; third joint piceous, spindle-shaped, tawny at the base, as long as the first joint: bristle black, rather stout, much longer than the third joint: chest light tawny, clothed with short black hairs, beset on each side and behind with black bristles, adorned with four darker tawny stripes; middle stripes narrow, linear; side stripes shorter, broader, and irregular: breast and sides of the chest hoary: abdomen nearly linear and cylindrical, very much narrower than the chest, and more than twice its length, clothed with short pale yellow hairs, and towards the base with longer hairs; first and second segments very short; second segment arched; third and following segments long, successively decreasing in length to the tip, which is shining; hind borders of the segments grayish tawny, armed on each side with long black and white bristles; sexual parts large, piceous, shining: legs tawny, clothed with short black hairs, armed with long black spines; claws black, tawny at the base; foot-cushions tawny: wings colourless, gray at the tips and along the hind borders; wing-ribs tawny; veins black, tawny at the base; poisers tawny. *Female.*—Abdomen about thrice the length of the chest; its tip black, shining, and compressed. Length of the body 7—8 lines; of the wings 11—12 lines.

a. ——— ?

**ASILUS** Margitis, n. s., fem. *Fuscus, thoracis vittis tribus pallidioribus, lateribus pectoreque canis, abdominis segmentorum marginibus posticis albis, apice compresso nigro nitente, antennis pedibusque nigris, tarsis basi tibiisque fulvis, alis limpidis apice subfuscis.*

Head as broad as the chest, covered with hoary down, thickly clothed behind and beneath with white hairs, beset behind the eyes with a row of short slender black bristles; crown brown, beset on each side with black hairs; clypeus prominent, armed with long white bristles and with a few black bristles: eyes reddish bronze; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with short whitish hairs; palpi black, beset with black hairs; first and second joints of the feelers black, beset with black hairs; second joint full half the length of the first: chest and breast hoary: fore chest short, its ridge beset with white bristles: disk of the chest dark brown, clothed with very short black hairs, beset on each side and behind with black bristles, adorned with three indistinct pale brown stripes: abdomen dark brown, narrower than the chest and more than twice its length, tapering from the base to the tip, thinly clothed with short black hairs, beset towards the base with a few long black and white hairs and bristles; first and second segments hoary, very short; second segment beset on each side with a tuft of white hairs and a few black bristles; third and following segments long, successively decreasing in length; hind borders of the segments white; tip compressed, black, shining: legs black, clothed with short whitish hairs, armed with black and white spines: shanks dark tawny, piceous at the tips; feet dark tawny at the base; foot-cushions piceous: wings colourless, slightly tinged with brown towards the tips; wing-ribs tawny; veins black, piceous towards the base; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 7 lines.

a. New Holland. Presented by J. Hunter, Esq.

**ASILUS** Ochesus, n. s., fem. *Cinereus, thoracis vittis tribus nigris, abdomine fusco fasciis canis, apice compresso nigro nitente, ventre cinereo, antennis pedibusque nigris, tibiis tarsisque fulvis, alis subfuscis.*

Head narrower than the chest, covered with hoary down, clothed behind and beneath with white hairs, beset behind the eyes with very long black hairs; crown dark tawny, beset on each side with black hairs; tubercle of the eyelets beset with black bristles: front pale tawny; clypeus prominent, beset with long white and black bristles: eyes reddish bronze; fore part flat, its facets a little



larger than those of the other part: lip black, clothed at the tip with short whitish hairs; tongue tawny; palpi black, beset with black hairs: feelers black; first and second joints beset with black hairs; second joint cup-shaped, about half the length of the first; third joint obconical at the base, tapering thence to the tip, a little shorter than the first and the second joints; bristle stout, as long as the third joint, widened near the tip, which is much more slender than any other part: chest and breast gray: chest clothed with long black hairs, beset on each side and behind with black bristles, adorned with three black stripes; middle stripe tapering from the fore border to the hind border; side stripes broader and shorter, each interrupted by an oblique gray band: breast partly clothed with white hairs: abdomen dark brown, clothed with short black hairs, beset on each side with long white hairs, narrower than the chest, and much more than twice its length, tapering from the base to the tip, which is compressed, black, and shining; hind borders of the segments hoary; under-side gray; first and second segments short; third and following segments long, successively decreasing in length: legs black, clothed with short white hairs, armed with long black spines; hips and thighs clothed with long white hairs; hips gray; shanks and feet tawny, piceous towards the tips; claws black, tawny towards the base; foot-cushions tawny: wings very slightly tinged with brown; wing-ribs and veins black; poisers tawny. Length of the body 4 lines; of the wings 8 lines.

a. ———? From Mr. Children's collection.

*ASILUS DASIUS*, n. s., fem. *Fuscus, thoracis vittis obscurioribus, abdominis fasciis fulvis, apice compresso nigro nitente, antennis nigris, pedibus rufis, femoribus tibiisque apice piceis, tarsis nigris, alis limpidis.*

Head as broad as the chest, covered with hoary down, clothed behind and beneath with white hairs, beset behind the eyes with white bristles; clypeus armed with long white bristles and hairs: eyes reddish bronze; fore part flat, composed of large facets: lip black, clothed at the tip with short whitish hairs: feelers black; first and second joints beset with a few black hairs; second joint about half the length of the first; third joint tapering from the base to the tip, nearly as long as the first and the second; bristle stout, shorter than the second: chest and breast dark tawny: chest clothed with very short black hairs, beset on each side and behind with some black bristles, adorned with indistinct darker stripes: abdomen brown, narrower than the chest, and much more than twice its length, thinly clothed with short pale hairs, tapering from

the base to the tip, which is compressed, black, and shining; hind borders of the segments tawny; under-side tinged with gray; first and second segments very short; third and following segments long, successively decreasing in length; legs red, thinly clothed with short black hairs, armed with black spines; hips covered with dark tawny down; tips of thighs and of shanks piceous; feet black, red at the base; foot-cushions tawny: wings colourless: wing-ribs ferruginous; veins black, piceous at the base; poisers tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 10 lines.

a. ——— ?

*ASILUS Mucius*, n. s., fem. *Fuscus, thoracis vittis tribus lateribusque fulvis, pectore cano, abdomine cinereo fasciato apice nigro compresso, antennis nigris, pedibus fulvis, femoribus et tibiis apice tarsisque nigris, femoribus posticis nigro vittatis, alis subcinereis.*

Body brown: head full as broad as the chest, covered with white down, clothed behind and more thickly beneath with white hairs; crown, front, and clypeus covered with yellow down; clypeus armed with a few yellowish white bristles: eyes dark bronze; fore part slightly convex, its facets rather larger than those of the other part: lip black, clothed at the tip with short yellow hairs; palpi black: feelers black; first and second joints beset with a few short black bristles; second joint club-shaped, about half the length of the first; third joint tapering from the base to the tip, rather shorter than the first; bristle rather stout, much longer than the third joint; chest thinly clothed with very short black hairs, beset on each side and behind with a few white bristles, adorned with tawny sides and with three tawny stripes: middle stripe slender; side stripes broader, widened in front: breast hoary: abdomen slender, brown, very thinly clothed with short pale hairs, a little narrower than the chest, and much more than twice its length, linear till near the tip, where it is compressed, black, and shining; hind borders of the segments gray; first and second segments very short; third and following segments long, successively decreasing in length; under-side hoary: legs tawny; hips gray; feet and tips of thighs and of shanks black; foot-cushions dark tawny; hind thighs streaked with black: wings with a slight gray tinge; wing-ribs ferruginous; veins black, ferruginous towards the base; poisers tawny. Length of the body 5 lines; of the wings 8 lines.

a. Monte Video. Presented by C. Darwin, Esq.

**ASILUS** Corissus, n. s., mas. *Fuscus, thorace fulvo pubescente vittisque quatuor fuscis ornato, abdominis apice fulvo fasciato, antennis pedibusque nigris, tibiis fulvis apice nigris, alis nigro-fuscis.*

Body dark brown: head nearly as broad as the chest, covered with golden down, beset behind the eyes with a row of black bristles, thickly clothed beneath with white hairs; sides of the crown beset with black hairs; clypeus very prominent, armed with long black bristles: eyes bright copper-colour, especially on the fore part, which is slightly convex, but its facets are much larger than those of the other part; lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black hairs: feelers black; first and second joints beset with a few black hairs; second joint a little more than half the length of the first; third joint slender, about twice the length of the second, tapering from the base to the tip; bristle much longer than the third joint; chest and breast covered with dark tawny down: chest beset on each side and behind with black bristles, adorned with four dark brown stripes; middle stripes linear and narrow; outer pair shorter and broader, connected with the sides by two oblique tawny bands: abdomen tawny towards the tip, much narrower than the chest, and rather more than twice its length, slightly tapering from the base to the tip, clothed with hoary hairs, which are longest and most thick towards the base; sexual parts piceous, and clothed with black hairs; the first and second segments very short; third and following segments successively decreasing in length: legs black, clothed with black hairs, armed with black spines; shanks bright tawny, with black tips, clothed with short tawny hairs, as are also the feet on the under-side; foot-cushions piceous: wings very dark brown; wing-ribs and veins black; poisers piceous. Length of the body 11 lines; of the wings 18 lines.

a. ———?

**ASILUS** Scaurus, n. s., mas. *Canus, thoracis vittis quinque fuscis, abdomine fusco-fulvo, antennis nigris, pedibus ferrugineis, femoribus nigro vittatis, tarsis nigris, alis albidis.* Allied to *A. dorsiger*, *Wied. Auss. Zweif.* i. 436, 17.

Head narrower than the chest, covered with white down, which has a yellow tinge in some parts, clothed behind and beneath with white hairs, beset behind the eyes with a few black bristles; sides of the crown clothed with white hairs; clypeus prominent, thickly armed with long yellowish white bristles: eyes dark bronze; fore part flat, its facets a little larger than those of the other part: lip black, clothed at the tip with short tawny hairs: palpi black, beset

with long hoary hairs: feelers black; first and second joints clothed with whitish hairs; first joint red at the tip; second joint more than half the length of the first; third joint spindle-shaped, more than twice the length of the second; fifth joint very thick, like a stout spine, a little shorter than the third: chest and breast hoary: chest thickly clothed with very short black hairs, beset on each side and behind with a few black bristles, adorned with five brown stripes; the two stripes on each side incompletely divided; hinder part and sides of the chest, fore chest and breast clothed with whitish hairs: abdomen fawn-colour, narrower than the chest, and more than twice its length, tapering from the base to the tip, clothed with very short pale yellow hairs; sides of the hind borders of the segments armed with two or three long pale yellow bristles; first and second segments very short; third and following segments long, successively decreasing in length; tip piceous in the male, black, and slightly compressed in the female: legs ferruginous, clothed with pale yellow hairs, armed with long pale yellow spines; feet black; thighs striped with black; hind thighs nearly all black; claws black, red at the base; foot-cushions ferruginous: wings whitish; wing-ribs ferruginous: veins black, ferruginous towards the base; poisers tawny. Length of the body  $12\frac{1}{2}$  lines; of the wings 20 lines.

a. Tripoli.

*ASILUS Bulbus*, n. s., mas. et fem. *Piceus, thoracis vittis tribus fulvis, humeris pectoreque ferrugineis, abdominis apice compresso, antennis nigris, pedibus ferrugineis, tarsis nigris, alis albidis apice fuscis.*

Body piceous: head narrower than the chest, covered with tawny down, clothed behind and beneath with pale yellow hairs, beset behind the eyes with some black bristles; sides of the crown thickly covered with black hairs; clypeus thickly armed with long black bristles: eyes dark bronze; fore part flat, its facets somewhat larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long pale yellow hairs; tongue ferruginous: feelers black; first and second joints beset with black hairs; second joint full half the length of the first; third joint rather broad, obconical at the base, tapering thence to the tip, beset with a very few short and slender hairs; bristle stout, nearly as long as the third joint: chest thinly clothed with short black hairs, beset on each side and behind with a few black bristles, adorned with three dark tawny stripes; middle stripe very slender; side stripes connected by two oblique tawny bands with the sides of the chest, which are also tawny; shoulders and breast ferruginous, the latter covered with a gray bloom: abdomen narrower than the

chest, rather more than twice its length in the male, and about thrice its length in the female, tapering from the base to the tip, compressed and lengthened towards the tip in both sexes, clothed with short black hairs and with a few long whitish hairs, the latter are chiefly towards the base and on the under-side; first and second segments short; third and following segments long: legs dark ferruginous, clothed with short black hairs, armed with black spines; feet black; foot-cushions piceous: wings whitish, brown at the tips; wing-ribs piceous; veins black, piceous towards the base; poisers tawny. Length of the body  $6\frac{1}{2}$ —10 lines; of the wings 12—15 lines.

Var.  $\beta$ . Thighs black.

a. Colenso, New Zealand. Presented by Dr. Hooker.

*ASILUS* LASCUS, n. s., mas. et fem. *Fuscus, thoracis vittis tribus fulvis, pectore cano, abdomine piceo*, fem. *apice compresso, antennis nigris*, fem. *fulvo cinctis, pedibus piceo-fulvis, alis subfulvis, apicibus marginibusque posticis cinereis*.

Body slender, brown: head as broad as the chest, covered with dark tawny down, beset behind the eyes with a few black bristles, thinly clothed beneath with whitish hairs; clypeus armed with long white bristles: eyes bronze; fore part nearly flat, its facets larger than those of the other part; lip black, clothed at the tip with short white hairs; palpi black, beset with long black hairs: feelers black; first and second joints beset with a few black hairs; second joint slightly club-shaped, tawny in the female, rather more than half the length of the first; third joint tapering from the base to the tip, as long as the first and the second, tawny at the base in the female; bristle stout, rather more than half the length of the third joint: chest beset on each side and behind with a few black bristles, adorned with three incomplete tawny stripes; sides also tawny: breast hoary: abdomen piceous, narrower than the chest, and more than twice its length, clothed with tawny hairs, slightly tapering from the base to the tip; first and second segments very short; third and following segments long, successively decreasing in length; sexual parts of the male small; tip of the female compressed: legs dull tawny, clothed with short tawny hairs, armed with long tawny bristles; thighs and shanks striped with piceous colour, especially towards the tips; feet piceous, tawny at the base; claws black; foot-cushions tawny: wings light tawny, gray at the tips and along the hind borders; wing-ribs piceous; veins black, piceous at the base; poisers tawny. Length of the body 5—6 lines; of the wings 9—11 lines.

a. Colenso, New Zealand. Presented by Dr. Hooker.

*ASILUS germanicus*, Linn. *Gmel. Ed. Syst. Nat.* v. 2898, 12. *Fabr. Sp. Ins.* ii. 464, 19. *Ent. Syst.* iv. 383, 31. *Herbst. Gim. Nat.* viii. pl. 346, f. 6. *Schrank. Faun. Boic.* iii. 2546. *Frisch. Ins.* iii. pl. 7. *Panz. Faun. Germ.* vii. 19. *Schæff. Icon. pl.* 48, f. 9, 10. *Fall. Dipt. Suec. Asil.* 82. *Meig. Dipt.* ii. 318, 18. *Curt. Brit. Ent.* 46. *Macq. Hist. Nat. Dipt.* i. 305, 9. *A. tibialis*, *Fabr. Ent. Syst.* iv. 383, 30. *Dasypogon germanicus*, *Fabr. Syst. Antl.* 169, 21. *D. tibialis*, *Fabr. Syst. Antl.* 168, 20.

a. England.

*ASILUS fimbriatus*, *Meig. Dipt.* ii. 320, 20.

a. England.

*ASILUS albiceps*, *Meig. Dipt.* ii. 312, 8.

a. England.

b. South of France. Presented by the Entomological Club.

c. South of France. Presented by F. Walker, Esq.

*ASILUS forcipatus*, Linn. *Faun. Suec.* 1914. *Gmel. Ed. Syst. Nat.* v. 2889, 13. *Fabr. Sp. Ins.* ii. 463, 18. *Ent. Syst.* iv. 382, 29. *Schrank. Faun. Boic.* iii. 2547. *Ins. Austr.* 997. *Latr. Gen. Crust.* iv. 298. *Fall. Dipt. Suec. Asil.* 93. *Meig. Dipt.* ii. 313, 11. *Macq. Hist. Nat. Dipt.* i. 308, 21. *Zett. Ins. Lapp.* 505, 1. *Dasypogon forcipatus*, *Fabr. Syst. Antl.* 167, 17. *Asilus cinereus*, *Deg. Ins.* vi. 98, 8, pl. 14, f. 5, 9.

a. France.

*ASILUS opacus*, *Gürtl. Meig. Dipt.* ii. 315, 13. *Zell. Ent. Zeit. Stett.* 1847, v. 280, 8.

a. England.

*ASILUS trigonus*, *Meig. Klass. Zweif.* 247, 7. *Dipt.* ii. 23. *Macq. Hist. Nat. Dipt.* i. 308, 22. *Loew, Isis.* 1840, 542, 8. *Linn. Ent.* iii. 443, 8. *A. bispidus*, *Zeller, Isis.* 1840, 71, 22. *Zett. Dipt. Scand.* i. 176, 10. *A. albipilus?* *Meig. Dipt.* vi. 331, 57, 8. *A. pullus?* *Meig. Dipt.* vi. 331, 58.

a. France.

*ASILUS æstivus*, *Schrank. Ins. Austr.* 996. *Gmel. Ed. Syst. Nat.* v. 2901, 46. *Meig. Dipt.* ii. 316, 15. *Macq. Hist. Nat. Dipt.* i. 304, 7. *Zett. Ins. Lapp.* 505, 2. *A. niger*, *Deg. Ins.* vi. 99, 9, pl. 14, f. 12. *A. tibialis*, *Fall. Dipt. Suec. Asil.* 9, 4.

a. Salerno. Presented by M. A. Pierret.

*ASILUS cothurnatus*, *Meig. Dipt.* ii. 317, 16.

a. England.

*ASILUS geniculatus*, Meig. *Dipt.* ii. 317, 17.

a. England.

*ASILUS bifurcus*, Loew, *Linn. Ent.* iii. 452, 11. *A. picipes*?

Meig. *Dipt.* ii. 338, 51. *A. varius*? Gürtl. Meig. *Dipt.* ii.

329, 34.

a. England.

b. France.

*ASILUS punctipennis*, Hoffmansegg, Meig. *Dipt.* ii. 330, 37. Macq.

*Hist. Nat. Dipt.* i. 306, 11. Zeller, *Isis.* 1840, 61, 14. Loew,

*Linn. Ent.* iii. 424, 2. *A. punctatus*, Meig. *Klass. Zweif.* i.

248, 10.

a. France.

*ASILUS varipes*, Meig. *Dipt.* ii. 328, 33. Zell. *Ent. Zeit. Stett.*

1847, v. 280, 1. *A. aurifluus*? Zell. *A. tenax*? Zell. *A.*

*xanthopygus*? Ruthe. *A. macrurus*? Ruthe.

a. England.

*ASILUS inconstans*, Hoffmansegg, Meig. *Dipt.* ii. 323, 25.

a. South of France. Presented by F. Walker, Esq.

*ASILUS cinerarius*, Pallas, *Wied. Zool. Mag.* i. 2, 29. Meig. *Dipt.*

ii. 333, 43.

a. Ukraine. Presented by Dr. Dowler.

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## ASILUS ———

a. ———? From Mr. Children's collection.

## ASILUS ———

a ———? From Mr. Children's collection.

## OMMATIUS, Illiger.

OMMATIUS Pennus, n. s. *Fulvus, thoracis vittis quatuor fuscis, ventre cano, antennis rufis apice nigris, pedibus nigris, tibiis alisque fulvis.* Allied? to *O. fulvidus*, Wied. Dipt. Exot. i. 214, 3. *Auss. Zweif. i.* 420, 3.

Head as broad as the chest, covered with yellow down, clothed with yellow hairs, which are most thick beneath; tubercle of the eyelets beset with some short black bristles; clypeus very prominent, most thickly clothed with long yellow hairs and bristles; eyes dark bronze, large; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with short yellow hairs: palpi black, clothed with long yellow hairs: feelers black; first and second joints red, beset with a few short black bristles, covered with whitish bloom; second joint a little shorter than the first; third joint red at the base, tapering thence to the tip, a little shorter than the first and the second; bristle branched, tawny towards the base, longer than all the preceding joints: fore chest tawny, short, clothed with tawny hairs and bristles: chest tawny, clothed with very short black hairs, beset on each side and behind with black bristles, adorned with four indistinct brown stripes, which are widened in front: breast pale tawny, with a hoary tinge: abdomen tawny, broad, flat, tapering from the base to the tip, a little narrower than the chest and much less than twice its length; first and second segments very short; third and following segments long, successively decreasing in length; under-side hoary: legs black, clothed with short pale yellow hairs, armed with black spines; shanks bright tawny; claws piceous towards the base; foot-cushions tawny: wings tawny; wing-ribs piceous: veins ferruginous; poisers tawny. Length of the body 10 lines; of the wings 20 lines.

a. Corea. Presented by Sir E. Belcher.

b. Borneo. Presented by the Admiralty.

OMMATIUS Coryphe, n. s., mas. *Fulvus, thoracis vittis quatuor fuscis, pectore ventreeque cano-flavis, antennis rufis apice nigris, pedibus nigris, tibiis fulvis, alis fulvo-cinereis.*

Body dark tawny: head as broad as the chest, covered with bright tawny down, clothed above and beneath with golden hairs,



beset behind the eyes with tawny bristles; tubercle of the eyelets furnished with tawny bristles; clypeus thickly armed with yellow hairs and bristles: eyes bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with tawny hairs and bristles: feelers red; first and second joints clothed with short tawny hairs; second joint a little shorter than the first; third joint black, slender, spindle-shaped, about twice the length of the first; bristle black towards the tip, much longer than all the preceding joints: chest clothed with short black hairs, beset on each side and behind with black bristles, adorned with four brown stripes; middle pair of stripes interrupted, and afterwards united on the hinder part; side stripes also interrupted: breast and under-side of the abdomen pale yellow, with a hoary tinge: abdomen much narrower than the chest, and much less than twice its length, tapering from the base to the tip, clothed with tawny hairs; first and second segments very short; third and following segments long, successively decreasing in length; sexual parts ferruginous, shining: legs black, thickly clothed with short yellow hairs, armed with some black spines; shanks bright tawny, with black tips; foot-cushions tawny: wings gray, with a slight tawny tinge; wing-ribs, veins, and poisers tawny. Length of the body 9 lines; of the wings 16 lines.

a. ——— ?

*OMMATIUS chinensis*. *Asilus chinensis*? *Fabr. Ent. Syst.* iv. 383, 34. *Wied. Dipt. Exot.* i. 185, 6. *Auss. Zweif.* i. 434, 14.  
*Dasypogon chinensis*? *Fabr. Syst. Antl.* 169, 25.

a. Hong Kong. Presented by J. C. Bowring, Esq.

*OMMATIUS Androcles*, n. s., fem. *Fulvus, abdomine nigro, fuscis lateribus apiceque fulvis, antennis ferrugineis, pedibus nigris, tibiis fulvis, alis fulvis, apicibus marginibusque posticis cinereis.*

Body rather dark tawny: head full as broad as the chest, covered with pale golden down, and clothed with hairs of the same colour, beset behind the upper borders of the eyes with a row of tawny bristles; front dark tawny; clypeus prominent, very thickly beset with golden hairs and bristles: eyes large, dark bronze, its facets larger than those of the other part: lip and palpi black, the latter beset with black bristles; first and second joints of the feelers ferruginous, clothed with short tawny hairs; second joint shorter than the first, armed with two or three black bristles; chest thinly clothed with short black hairs, and beset with black bristles on each side and behind, when it is also slightly covered with some tawny

hairs: breast and sides of the chest paler, covered with golden down, and clothed with pale tawny hairs: abdomen black, very little narrower than the chest, but nearly twice its length, nearly linear for half its length, and thence slightly decreasing in breadth to the tip, clothed with short tawny hairs; sides and hind borders of the segments tawny, especially beneath; first and second segments short; third and following segments longer, but successively decreasing in length; tip tawny; legs stout, black, clothed with short yellow hairs, and beset with black bristles; hips covered with golden down; shanks bright tawny; tips of hind shanks black; wings tawny, gray at the tips and along the hind borders; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body 11 lines; of the wings 22 lines.

a. Sandwich Island. Presented by Captain Beechey.

*OMMATIUS* Plautius, n. s., fem. *Fuscus, thoracis vittis tribus abdominisque segmentorum marginibus posticis fulvis, pectore vix treque cinereis, antennis pedibusque nigris, femoribus anticis apice subtus rufis, tibiis anterioribus rufis nigro variis, alis sub-fuscis apice fuscis.*

Body dark brown: head a little narrower than the chest, covered with hoary down beneath, and with yellow down above, clothed behind and beneath with white hairs, beset behind the eyes with a row of black bristles; sides of the crown beset with black bristles; clypeus prominent, armed with black bristles, and in front with some long pale yellow bristles: eyes large, bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short pale yellow hairs; palpi black, clothed with long black hairs: feelers black; first and second joints beset with short black bristles; second joint less than half the length of the first: chest clothed with short black hairs, beset on each side and behind with black bristles, adorned with three slender tawny stripes; side pair connected with the sides by two oblique tawny bands: breast gray: abdomen narrower than the chest, and less than twice its length, tapering from the base to the tip, clothed with short black hairs, beset with a few black bristles on the sides of the hind borders of the segments; hind borders of the segments dull tawny; under-side gray: legs black, clothed with short whitish hairs, armed with black spines; four front shanks dark red, striped with black; fore thighs red beneath at the tips; foot-cushions piceous: wings light brown, darker at the tips; wing-ribs piceous; veins black; poisers tawny. Length of the body 12 lines; of the wings 20 lines.

a. ——— ?

OMMATIUS Papus, n. s., mas. *Fuscus, thoracis vittis tribus canis, lateribus pectoreque fulvis, metathorace cano, antennis pedibusque nigris, alis fuscis apice obscurioribus.*

Body dark brown: head large, as broad as the chest, covered with tawny down, clothed behind and beneath with hoary hairs, beset behind the eyes with a row of black bristles; tubercle of the eyelets, front and sides of the crown covered with black hairs; clypeus prominent, thickly beset with bright tawny hairs: eyes large, bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, beset with long black bristles: feelers black; first and second joints beset with long black bristles; second joint about half the length of the first; third joint spindle-shaped, nearly as long as the first; bristle much longer than all the preceding joints: chest clothed with very short black hairs, beset on each side and behind with black bristles, adorned with three hoary stripes; sides and breast tawny, with a hoary tinge: hind chest hoary: abdomen narrower than the chest, and nearly twice its length, tapering from the base to the tip, clothed with tawny hairs, especially on each side towards the base; first and second segments very short; third and following segments long, successively decreasing in length; sexual parts black, shining, rather large; legs black, clothed with dark tawny hairs and black bristles; hips and thighs clothed with long and paler hairs; foot-cushions tawny: wings brown, darker towards the tips; wing-ribs piceous; veins black; poisers piceous. Length of the body 10 lines; of the wings 18 lines.

a. ———?

OMMATIUS Lema, n. s., fem. *Piceus, thoracis vittis tribus fulvis maculisque duabus arcuatis albis, lateribus pectoreque canis, abdominis segmentorum marginibus posticis ventrequ cinereis, antennis pedibusque nigris, tibiis rufis nigro variis, alis fuscis.*

Body piceous: head nearly as broad as the chest, covered beneath with hoary down, above with yellow down, beset behind the eyes with a row of black bristles, clothed behind and beneath with white hairs; tubercle of the eyelets beset with a few black hairs; clypeus armed with very long pale yellow bristles, and on the hinder part with a few black bristles: eyes large, bronze; fore part nearly flat, its facets much larger than those of the other part: lip black, its tip clothed with short tawny hairs; palpi black, clothed with long white hairs: feelers black; first and second joints beset with short black hairs; second joint much shorter than the first; third joint short-conical, hardly more than half the length of the first and the second; bristle more than twice the length of all the preceding

joints, adorned with numerous side bristles: chest clothed with some black hairs, beset on each side and behind with a few black bristles, adorned with three indistinct tawny stripes, and on each side of the front with a semicircular white spot; fore chest, scutcheon, hind chest, and breast hoary: abdomen narrower than the chest, and less than twice its length, tapering from the base to the tip, thinly clothed with very short tawny hairs, and at the tip with some longer black hairs; hind borders of the segments and under-side gray; first and second segments very short; third and following segments long, successively decreasing in length: legs black, clothed with very short tawny hairs, armed with black spines; shanks very dark red, with black tips and streaks; foot-cushions dark tawny; hips gray: wings brown; wing-ribs piceous; veins black; poisers tawny. Length of the body 9 lines; of the wings 16 lines.

a. New Holland. Presented by the Haslar Hospital.

OMMATIUS Cœræbus, n. s., mas. et fem. *Niger, thoracis vittis tribus aureis, lateribus pectoreque flavis, antennis pedibusque nigris, tibiis flavis apice nigris, alis subfuscis, mari. dilatatis.*

Body black: head narrower than the chest, covered behind and beneath with hoary down, and above with pale yellow down, beset behind the eyes with a row of black bristles, clothed beneath with white hairs; tubercle of the eyelets beset with a few black hairs; clypeus armed with many long pale yellow bristles, and on the hinder part with a few darker bristles: eyes dark bronze, large; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, red at the tips, clothed with long black hairs: feelers black; first and second joints covered with tawny down, beset with black hairs; second joint shorter than the first; third joint long-conical, much longer than the second; bristle nearly twice the length of all the preceding joints, adorned with numerous side bristles: chest clothed with a very few short black hairs, furnished on each side and behind with some longer hoary hairs and with a few black bristles, adorned with three golden stripes; side stripes connected by two oblique golden bands with the sides of the chest, which are pale yellow like the breast; the latter has a hoary tinge: abdomen hardly half the breadth of the chest, and less than twice its length, tapering for nearly one-third of the length from the base, linear, and nearly cylindrical from thence to the tip, clothed with hoary hairs on each side, and with a few black hairs at the tip; first and second segments very short; third and following segments long, successively decreasing in length: legs black, armed with black spines; thighs and

shanks clothed with long pale yellow hairs; shanks clothed with long pale yellow hairs; shanks bright yellow, with black tips; claws tawny at the base; foot-cushions tawny: wings very light brown; each wing of the male with a brown spot below the fore border just before the part where the wing is widened by the convexity of the vein; wing-ribs piceous; veins black, dark ferruginous towards the base; poisers tawny. *Female*.—Like the male: chest narrower: wings not spotted nor widened. Length of the body 8—11 lines; of the wings 13—18 lines.

a. ———? From the Hardwicke bequest.

b. New Holland.

c. ———?

OMMATIUS marginellus, Wied. *Dipt. Exot.* i. 213. *Auss. Zweif.* i. 421, 5. *Macq. Hist. Nat. Dipt.* i. 314, 3. *Asilus marginellus*, *Fabr. Sp. Ins.* ii. 464, 22. *Ent. Syst.* iv. 384, 36. *Dasypogon marginellus*, *Fabr. Syst. Antl.* 170, 28.

a. South America. From Mr. Warwick's collection.

b. ———?

OMMATIUS SACCAS, n. s., fem. *Fuscus, thoracis vittis tribus lateribusque fulvis, pectore albo, abdominis segmentorum marginibus posticis cinereis, antennis fulvis apice nigris, pedibus fulvis, femoribus et tibiis apice tarsisque nigris, alis sublimpidis apice fuscis.*

Body dark brown: head a little broader than the chest, covered with hoary down, clothed behind and beneath with white hairs; crown, front, and clypeus covered with tawny down; tubercle of the eyelets beset with a few black bristles; clypeus armed with a few white bristles, and on the hinder part with some longer but more slender black bristles: eyes bronze; fore part flat, its facets much larger than those of the other part: lip black, ferruginous towards the tip, where it is clothed with short yellow hairs: palpi black, clothed with a few long black hairs: feelers black; first and second joints tawny, of equal length; second joint beset with a few black bristles; third joint conical, as long as the second; bristle very much longer than all the preceding joints: chest thinly clothed with very short black hairs, beset on each side and behind with a few black bristles, adorned with three tawny stripes; each side stripe connected by two oblique tawny bands with the sides of the chest, which pass from a tawny to a hoary hue towards the white breast: abdomen much narrower than the chest, and rather more than twice its length, very slightly tapering from the base to the tip, clothed with hoary hairs; hind borders of the segments gray;

first and second segments short; third and following segments long, successively decreasing in length: legs tawny, clothed with short black hairs, beset with black spines; hips hoary; thighs and shanks more or less black towards the tips; feet black, tawny at the base foot-cushions piceous: wings nearly colourless, brown towards the tips, and thence for half the length along the hind borders; wing-ribs and veins black; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. Jamaica. From Mr. Gosse's collection.

OMMATIUS Pera, n. s., fem. *Fuscus, thoracis vittis duabus cinereo-fulvis, marginibus scutelloque cinereis, pectore cano, antennis fulvis, pedibus flavis, tarsis obscurioribus, femoribus tibiisque apice nigris, alis subfuscis.*

Body brown: head full as broad as the chest, covered with hoary down, clothed behind and beneath with white hairs, beset behind the eyes with a few black bristles; tubercle of the eyelets clothed with a few black hairs; clypeus in front armed with white bristles, its hinder part and the adjoining part of the front beset with longer black bristles: eyes bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short whitish hairs; palpi black, clothed with long black hairs: feelers pale tawny; first and second joints beset with short black hairs; second joint much shorter than the first: chest beset on each side and behind with a few white bristles, adorned with two dull grayish tawny stripes; fore chest, scutcheon, hind chest, and sides gray; breast hoary: abdomen much narrower than the chest, and nearly twice its length, almost linear from the second segment to the tip, clothed with short pale yellow hairs and with longer hairs on each side, especially towards the base; first and second segments very short; second segment broader and more convex than the third; third and following segments long, successively decreasing in length: legs yellow, clothed with pale yellow hairs, armed with pale yellow and black spines; tips of thighs and of shanks black; feet tawny, piceous towards the tips; hind feet black, piceous at the base; claws black, tawny at the base; foot-cushions tawny: wings slightly tinged with brown: wing-ribs piceous; veins black; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. ———?

**OMMATIUS** Hecale, n. s., mas. et fem.? Mas. *Fuscus, thoracis vittis duabus cinereo-fulvis, marginibus scutelloque cinereis, pectore cano, antennis nigris, pedibus flavis, tarsis obscurioribus, femoribus tibiisque apice nigris, alis limpidis, mari. ad costam dilatatis cinereoque maculatis.*

Body brown: head as broad as the chest, covered with hoary down, clothed behind and beneath with white hairs, beset behind the eyes with a few black bristles; tubercle of the eyelets furnished with a few black hairs; front clothed with a few white hairs; clypeus armed with long white bristles: eyes bronze; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs: feelers black; first and second joints beset with short black hairs; second joint much shorter than the first; third joint long-conical, a little longer than the second; bristle nearly twice the length of all the preceding joints, adorned with many side bristles: chest beset on each side and behind with a few white bristles, adorned with two dull tawny grayish stripes; fore chest, scutcheon, hind chest and sides gray; breast hoary: abdomen much narrower than the chest and nearly twice its length, nearly linear from the second segment to the tip, clothed with short pale yellow hairs, and on each side, especially towards the base with longer hairs; first and second segments very short; second segment with a slight tawny tinge, broader, and more convex than the following segments; third and following segments long, successively decreasing in length: third segment crossed by rows of black punctures: legs yellow, clothed with pale yellow hairs, armed with pale yellow and black spines; tips of thighs and of shanks black; hind feet black, piceous at the base; four front feet tawny, piceous towards the tips; claws black, tawny at the base; foot-cushions tawny: wings colourless, gray beneath the convex part of the fore border, which is less widened than that of some other species; wing-ribs ferruginous; veins black, ferruginous at the base; poisers pale tawny. *Fem.*—Feet black, piceous at the base; hind feet quite black; hind thighs mostly black: wings with a very slight brown tinge, not widened. Length of the body 7 lines; of the wings 11 lines.

a. ———?

b. ———? From Mr. Children's collection.

**OMMATIUS** Tarchetius, n. s. *Fulvus, thoracis vittis quatuor fuscis, pectore cano, abdomine fusco fasciis fulvis, antennis pedibusque fulvis, alis subfulvis.*

Body tawny: head narrower than the chest, hoary and clothed with white hairs behind and beneath; front and clypeus clothed

with pale yellow down, the former beset with some tawny bristles, the latter armed with long pale yellow bristles: eyes bronze; fore part flat, composed of facets larger than those of the other part, from which it is clearly distinguishable: lip black, shining, its tip ferruginous and clothed with yellow hairs; palpi black, hairy, their tips beset with bristles: feelers tawny; first and second joints clothed with very few hairs; second joint a little shorter than the first; third joint tapering from the base to the tip, much longer than the first; fourth joint or the bristle much longer than all the preceding joints: chest beset with some tawny bristles on the sides and towards the hind border; four irregular brown stripes occupy most of the disk: breast hoary, which colour blends with tawny on the sides of the chest: abdomen brown, nearly linear, much narrower than the chest and much more than twice its length, clothed with short yellow hairs; hind borders of the segments, especially on each side, tawny: legs tawny, beset with tawny bristles and hairs; hips covered with pale tawny down; trochanters and knees piceous; feet clothed with black hairs and bristles; claws black; foot-cushions tawny: wings with a tawny tinge, especially at the base and along the fore border; wing-ribs ferruginous; veins piceous, ferruginous at the base, black at the tips; poisers pale tawny. Length of the body 5 lines; of the wings 9 lines.

a. Isle of France.

*OMMATIUS Amyclæus*, n. s., mas. et fem. *Niger, thoracis vittis duabus flavis, lateribus scutello pectoreque albis, abdominis segmentorum suturis lateribusque fulvis, ventre cinereo, antennis pedibusque nigris, femoribus tibiisque basi rufis, alis subfuscis, mari dilatatis.*

Body black: head nearly as broad as the chest, covered with white down, clothed behind and beneath with white hairs, beset behind the eyes with black bristles; tubercle of the eyelets beset with a few black bristles; clypeus armed with white bristles on the fore part, and with a few long black bristles behind and on the adjoining part of the front: eyes bronze; fore part nearly flat, its facets much longer than those of the other part: lip black, clothed at the tip with short yellow hairs; palpi black, yellow towards the tips, clothed with white hairs: feelers black; first joint clothed with a few tawny hairs; second joint a little shorter than the first and beset with some short black bristles; third joint conical, a little longer than the first; bristle nearly or twice the length of all the preceding joints: fore chest, scutcheon, hind chest, sides and breast white; disk of the chest black, adorned with two pale yellow slightly curved stripes, which are widened in front when they join the sides, and also behind



when they are joined together, and they have a slightly oblique band on each side: chest beset with some black bristles on each side and behind: abdomen linear, much narrower than the chest, less than twice its length, clothed with very short tawny hairs; sides and borders of the segments dull tawny; under-side gray; first and second segments very short; third and following segments long, successively decreasing in length; third, fourth and fifth segments crossed by rows of black punctures: legs black, clothed with hoary hairs, armed with black and white spines; thighs and shanks red towards the base, and this colour is most prevalent in the fore legs; thighs of the male rather thick; shanks and feet covered beneath with tawny down; foot-cushions dull tawny: wings slightly tinged with brown, widened on the fore border in the male; wing-ribs piceous; veins black, ferruginous at the base; poisers ferruginous. Length of the body 7 lines; of the wings 12 lines.

a. ——— ? From Mr. Children's collection.

*OMMATIUS* Ademon, n. s. *Niger, pectore piceo, antennis nigris, pedibus ferrugineis, alis subtilis basi limpidis.*

Body black, probably overspread with brown, gray or tawny bloom, which is effaced in the specimen described: head a little broader than the chest, clothed behind and beneath with white hairs, beset with a fringe of black bristles on the crown and in front, where it is covered with black down; clypeus adorned with many bright tawny bristles: eyes dark bronze colour; fore part slightly convex, composed of large facets, which diminish as they diverge, but the boundary where they cease to decrease is distinctly marked: lip black, short, tipped with tawny hairs; palpi black, clothed with black hairs and bristles: feelers black; first joint clothed with black hairs; second joint shorter than the first, beset with black bristles; third joint oval, as long as the second; fourth joint or the bristle slender, as long as all the preceding joints, furnished with long hairs: breast piceous: sides of the chest beset with pale yellow bristles: abdomen nearly linear, slightly convex, narrower than the chest and nearly twice its length, thinly clothed with short pale hairs: legs ferruginous, clothed with short pale yellow hairs and beset with black spines and bristles; feet also covered with black hairs; claws black; foot-cushions tawny; fore legs unarmed: wings pale brown, colourless towards the base, excepting the fore border; wing-ribs and veins piceous, the latter black towards the tips; poisers piceous. Length of the body 6—6½ lines; of the wings 11—11½ lines.

a. ——— ?

**OMMATIUS** Ialmus, n. s., mas. *Fuscus, thoracis maculis duabus, metathorace pectoreque fulvis, abdomine nigro, lateribus fulvo maculatis, antennis nigris, pedibus fulvis, femoribus rufis, tarsis nigris, alis subfuscis.*

Head as broad as the chest, covered with pale tawny down, clothed behind and beneath with white hairs, thickly beset behind with black bristles; tubercle of the eyelets and sides of the crown clothed with black hairs; clypeus bright tawny, armed with black bristles: eyes large, dark bronze; fore part flat, its facets larger than those of the other part: lip black, clothed at the tip with pale yellow hairs; palpi black, beset with long black hairs: feelers black; first joint clothed with long black hairs; second joint beset with short black bristles, about half the length of the first: chest dark brown, clothed with black hairs, beset on each side and behind with black bristles, tawny behind and on each side in front: breast tawny, with a hoary tinge: abdomen black, a little narrower than the chest and much less than twice its length, tapering from the base to the tip, clothed with tawny hairs, of which there is a thick tuft at its tip; hind borders of the segments adorned on each side with triangular tawny spots; first and second segments short; third and following segments long, successively decreasing in length: legs clothed with tawny hairs, beset with black bristles; hips tawny, clothed with long pale tawny hairs; thighs red; shanks tawny, with black tips; feet black, tawny at the base; claws tawny at the base; foot-cushions tawny: wings light brown, rather darker along the borders of the veins; wing-ribs piceous; veins black, piceous towards the base; poisers tawny. Length of the body 6 lines; of the wings 11 lines.

a. New Holland. Presented by J. Hunter, Esq.

**OMMATIUS** auratus, Wied. *Dipt. Exot.* i. 213, 2. *Auss. Zweif.* i. 420, 4. *Macq. Hist. Nat. Dipt.* i. 314, 2. *Asilus auratus, Fabr. Ent. Syst.* iv. 387, 48. *Dasypogon auratus, Fabr. Syst. Antl.* 167, 12.

a. Madras. Presented by Walter Elliott, Esq.

b. East India. From Mr. Walker's collection.

**Var.?** *Fulvus, thorace cinereo, abdomine basi apiceque piceo, antennis fulvis apice nigris, alis subcinereis.*

Head pale tawny, as broad as the chest, armed behind with rows of black bristles, and clothed with white hairs, which are most thick beneath: clypeus very thickly clothed with pale yellow hairs and bristles: lip black, short, stout, its tip covered with a cluster of short pale yellow hairs: eyes dark bronze colour, divided as usual

into two parts, which are distinctly marked: first and second joints of the feelers tawny, short, of equal length, clothed with short black hairs; third joint spine-shaped, black, about thrice the length of the first and of the second joints; fourth joint, black, short, bristle-like: chest gray, its sides beset with a few black hairs and bristles: breast pale tawny, thinly clothed with pale yellow hairs: scutcheon of a colour between that of the chest and that of the breast: abdomen tawny, convex, nearly cylindrical, clothed with very short yellow hairs, narrower than the chest and full twice its length, slightly compressed before half its length, spindle-shaped thence to the tip; first segment piceous, very short; second segment rather short, broad and convex, and furnished on each side with a cluster of yellow hairs; third segment long; the following segments successively decreasing in length; sixth and seventh segments mostly piceous: legs tawny, thinly clothed with short yellow hairs; thighs armed with two or three spines; these are more numerous on the shanks, but abound most on the feet; claws black; foot-cushions tawny; fore legs unarmed: wings slightly gray; wing-ribs and veins ferruginous, the latter piceous towards the tips; poisers tawny. Length of the body  $7\frac{1}{2}$  lines; of the wings 12 lines.

a. North Bengal. From Miss Campbell's collection.

#### ATOMOSIA, Macquart.

ATOMOSIA incisuralis, *Macq. Dipt. Exot.* i. 2, 76, 4, pl. 7, f. 1.

a. Ohio. Presented by the Entomological Club.

#### DAMALIS, Fabricius.

DAMALIS myops, *Fabr. Syst. Antl.* 148, 4. *Wied. Auss. Zweif.* i.

417, 3. *Macq. Hist. Nat. Dipt.* i. 316, 1. *D. tibialis*, *Macq.*

*Dipt. Exot.* i. 2, 154, pl. 12, f. 6.

a. ——— ?

DAMALIS planiceps, *Fabr. Syst. Antl.* 148, 2. *Wied. Auss. Zweif.*

i. 416, 4. *Macq. Hist. Nat. Dipt.* i. 316, 2.

a. ——— ?

DAMALIS Andron, n. s., mas. et fem. *Fuscus, thoracis lateribus humeris scutelloque fulvis, abdomine æneo, antennis nigris, pedibus fulvis, tibiis apice piceis, alis subfulvis.*

*Male.*—Body brown, covered with brown down: head much broader than the chest, with a few black hairs along the borders of the eyes; clypeus armed with four long black bristles: lip black, piceous at the tip, where it is clothed with dark tawny hairs; palpi

black and beset with long black hairs: eyes coppery, large, flat on the fore side, composed of facets with three sizes; the facets in the middle of the fore part are remarkably large and are surrounded by facets of moderate size, but those in the outermost border of the eye are very small: feelers black; joints from the first to the third very short; first joint club-shaped; second joint linear, somewhat shorter than the first; third joint conical, as long as the second; fourth joint or bristle very long, thrice the length of all the preceding joints: chest thinly clothed with black hairs on the back, tawny and covered with tawny hairs on each side and behind and on the scutcheon; this tawny hue is darker on the fore sides and on the two oblique side-bands; shoulders tawny, shining: abdomen linear, with a bronze tinge, thinly clothed with black hairs, tawny and clothed with pale tawny hairs, much narrower and longer than the chest but not twice its length; first and second segments short; third and following segments longer, but successively decreasing in length to the tip: legs tawny, clothed with black hairs; hips, trochanters and tips of shanks piceous; feet dark tawny; claws black, yellow at the base; foot-cushions pale tawny; hind legs much longer than the others; hind thighs armed beneath with some black spines; hind shanks slightly curved, somewhat piceous in the middle: wings with a very slight tawny tinge; wing-ribs ferruginous; veins black, ferruginous at the base; poisers tawny, with piceous knobs. *Female*.—Rather darker than the male: first and second joints of the feelers hardly longer than broad; third joint much more slender than the first and the second: abdomen bronze, slightly spindle-shaped, twice the length of the chest, with a pale tawny spot at the base, tawny beneath, more shining than that of the male: wings darker than those of the male: knobs of the poisers pale tawny. Length of the body 4—4½ lines; of the wings 9—10 lines.

Var. *β. fem.*—Abdomen with two large pale tawny spots towards the base: wings rather dark.

*a.* Hong-Kong, China. Presented by J. Bowring, Esq.

*DAMALIS fuscus*, n. s., fem. *Fuscus, thoracis lateribus pectoreque canis, abdomine nigro, antennis pedibusque nigris, alis subfuscis ad costam obscurioribus.*

Body dark brown: head a little broader than the chest, thinly clothed beneath with white hairs; clypeus armed with a few black bristles: eyes bronze; fore part nearly flat, its facets much larger than those of the other part: lip black, clothed at the tip with short tawny hairs; palpi black, clothed with long black hairs: feelers

black; first and second joints very short, beset with black bristles; third joint slender, conical; bristle more than twice the length of all the preceding joints: chest thickly clothed with short hoary hairs; breast and sides of the chest hoary: abdomen black, linear, a little narrower than the chest and full twice its length, clothed (especially along the sides) with short tawny hairs; first and second segments short; third and following segments long: legs black, thickly clothed with hoary hairs; feet beset with black spines; foot-cushions tawny; claws yellow, with black tips; hind thighs thick, armed beneath with black teeth; hind shanks curved: wings light brown, darker along the fore borders; wing-ribs ferruginous; veins black, ferruginous; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

a. North Bengal. From Miss Campbell's collection.

### LEPTOGASTER, Meigen.

LEPTOGASTER cylindricus, Macq. *Dipt. Nord. Asil.* ii. 1. Zeller, *Isis*, 1840, 42, 2. Zett. *Dipt. Scand.* i. 186, 1. Loew, *Linn. Ent.* ii. 403, 7. *Asilus cylindricus*, Deg. *Ins.* vi. 99, 10, t. xiv. 13. *A. lividus*? Geoff. *Ins.* ii. 474, 17. *A. tipuloides*, Fabr. *Syst. Ent.* 795, 20. *Ent. Syst.* iv. 385. Schrank. *Faun. Boic.* iii. 161, 2556. *Dasypogon tipuloides*, Fabr. *Syst. Antl.* 172, 37. *Leptogaster tipuloides*, Meig. *Klass.* i. 242, t. xii. 16. Fall. *Dipt. Suec. Asil.* 13, 1. *L. fuscus*, Meig. *Syst. Besch.* ii. 344, 2. Macq. *Dipt. Nord. Asil.* ii. 2. *Gonypes tipuloides*, Latr. *Hist. Nat.* xiv. 309. *G. cylindricus*, Latr. *Gen. Crust.* iv. 301. *Cons. Gén.* 443. Macq. *Hist. Nat. Dipt.* i. 315, 1. *G. fuscus*? Macq. *Hist. Nat. Dipt.* i. 315, 3.

a. England.

b. ———? From Mr. Children's collection.

LEPTOGASTER Proculus, n. s. *Niger, thoracis maculis duabus rufis, pectore cinereo, antennis piceis rufo cinctis, pedibus nigris femoribus apice rufis, tibiis fulvo vittatis, alis flavo-fuscis basi obscurioribus.*

Body black, shining: head as broad as the chest, covered with hoary down, clothed behind and beneath with short white hairs, beset behind the eyes with a few black bristles; front and clypeus covered with pale tawny down; clypeus armed with short black bristles: eyes black; fore part flat, its facets very much larger than those of the other part: lip black, clothed at the tip with short yellow hairs; palpi black, shining, clothed with long black hairs: feelers red; first joint piceous; second joint much longer than the

first, beset with a few short black bristles; third joint very slender, long spindle-shaped, piceous towards the tip, much longer than the first and the second joints; bristle black, very stout, about half the length of the third joint: chest thinly covered with very short hoary hairs, red on each side in front: breast gray: abdomen club-shaped, very slender from the base to more than half the length, widening thence to the tip, narrower than the chest and about thrice its length, thinly clothed with hoary hairs, beset with long hoary hairs and black bristles on each side towards the base: legs black, clothed with short tawny hairs, beset with a few short black spines; feet armed with long black spines; thighs red towards the tips; shanks with tawny stripes: wings yellowish brown, darkest towards the base; wing-ribs piceous; veins black, piceous towards the base; poisers tawny. Length of the body 8 lines; of the wings 12 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

LEPTOGASTER Datis, n. s. *Niger, pectore cinereo, abdominis lateribus fulvo maculatis, antennis rufis basi piceis, pedibus fulvis, tarsis piceis basi fulvis, femoribus posterioribus nigro vittatis, tibiis posticis apice piceis, alis fuscis ad costam ferrugineis.*

Body black: head a little broader than the chest: hind part and under-side covered with white down and beset with short white hairs; front and clypeus covered with pale yellow down; clypeus armed with pale yellow bristles: eyes black; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with pale yellow hairs: feelers red; first joint piceous, clothed with a few tawny hairs; second joint longer than the first, beset with some short black bristles; third joint long spindle-shaped, much longer than the two preceding joints; bristle stout, black, about half the length of the third joint: chest thickly clothed with short tawny hairs: breast gray: abdomen club-shaped, narrower than the chest and about thrice its length, very slender from the base to more than half the length, widening thence to the tip, clothed with short tawny hairs; sides of the borders of the segments tawny: legs tawny, clothed with tawny hairs; feet piceous, armed with black spines, tawny at the base; claws black; hind thighs striped with black on each side; hind shanks piceous at the tips; middle thighs very slightly streaked with black: wings brown, ferruginous along the fore borders; wing-ribs piceous; veins black, ferruginous towards the base and along the fore borders; poisers pale ferruginous. Length of the body  $5\frac{1}{2}$  lines; of the wings 8 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**LEPTOGASTER** Marion, n. s. *Fuscus, thoracis lateribus pectore abdominisque fasciis canis, antennis nigris, pedibus flavis, tarsis necnon femoribus tibiisque anterioribus nigris basi flavis, alis fuscis apicibus marginibusque posticis pallidioribus.*

Body dark brown: head a little broader than the chest, clothed beneath with some white hairs; front and clypeus covered with pale yellow down; clypeus thickly clothed with pale yellow hairs: eyes black; fore part flat, its facets much larger than those of the other part: lip black, clothed at the tip with pale yellow hairs: feelers black; first and second joints very short, beset with a few short black bristles; third joint long spindle-shaped, much longer than the first and the second joints; bristle rather stout, much shorter than the third joint: chest thinly covered with short hoary hairs; sides and breast hoary: abdomen club-shaped, much narrower than the chest and more than thrice its length, compressed and very slender for nearly three-fourths of the length, widening thence to the tip, adorned with seven or eight broad hoary bands: legs yellow; feet and four front thighs and shanks black, yellow at the base; hind knees and tips of hind shanks black: wings dark brown, paler towards the tips and along the hind borders; wing-ribs piceous; veins black; poisers yellow. Length of the body 4 lines; of the wings  $5\frac{1}{2}$  lines.

a. North Bengal. From Miss Campbell's collection.

**LEPTOGASTER** Pedanius, n. s., mas. *Niger, thoracis lateribus pectoreque albis, abdominis fasciis ventrique cinereis, antennis fulvis apice nigris, pedibus fulvis, alis limpidis.*

Body black: head a little broader than the chest, covered with white down: eyes black; fore part nearly flat, its facets much larger than those of the other part: lip black: feelers black; first and second joints short, dark tawny; third joint tapering from the base to the tip, a little longer than the first and the second joints; bristle longer than the third joint: breast and sides of the chest white: abdomen very slender for three-fourths of its length, widening thence to the tip, much narrower than the chest and about thrice its length; borders of the segments and under-side gray; first and second segments very short; third and following segments long: legs tawny; claws black: wings colourless; wing-ribs piceous; veins black; poisers tawny. Length of the body 4 lines; of the wings 5 lines.

a. New Holland. Presented by the Haslar Hospital.

# LIST OF DIPTERA.

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## PART III.

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### Sub-order I.—PROBOSCIDEÆ.

#### Fam. IX. HYBOTINÆ.

##### HYBOS, *Fabricius*.

HYBOS funebris, *Fabr. Syst. Antl.* 145, 1. *Latr. Gen. Crust.* iv. 305. *Fall. Dipt. Suec. Empid.* 5, 1. *Meig. Dipt.* ii. 347, 1. *Curt. Brit. Ent.* 661, 1. *Macq. Hist. Nat. Dipt.* i. 318, 1. *Zett. Ins. Lapp.* 535, 1. *Asilus culiciformis, Fabr. Sp. Ins.* ii. 466, 33. *Ent. Syst.* iv. 389, 61. *Gmel. Ed. Syst. Nat.* v. 2900, 41. *Schrank. Faun. Boic.* iii. 2558. *Stew. El.* ii. 273. *Turt.* iii. 680. *Meig. Klass. Zweif.* i. 270. *Empis clavipes, Fabr. Ent. Syst.* iv. 403, 4. *Syst. Antl.* 38, 4. *Dasypogon culiciformis, Fabr. Syst. Antl.* 172, 40.

a. England.

b. England. Presented by F. Walker, Esq.

c. France.

d. ———? From Mr. Children's collection.

HYBOS vitripennis, *Meig. Dipt.* ii. 348, 2. *Curt. Brit. Ent.* 661, 2. *Macq. Hist. Nat. Dipt.* i. 319, 2. *Zett. Ins. Lapp.* 535, 2.

a. England.

b. England. Presented by F. Walker, Esq.

HYBOS flavipes, *Fabr. Syst. Antl.* 145, 2. *Fall. Dipt. Suec. Empid.* 5, 2. *Meig. Dipt.* ii. 348, 3, *pl.* 21, *f.* 20. *Curt. Brit. Ent.* 661, 3. *Macq. Hist. Nat. Dipt.* i. 319, 3. *Zett. Ins. Lapp.* 535, 3.

a. England. Presented by F. Walker, Esq.



*Hybos fumipennis*, *Hoffmansegg, Meig. Dipt. ii. 349, 4. Ahrens. Faun. 12, 25. Curt. Brit. Ent. 661. 4.*

a. England.

b. England. Presented by F. Walker, Esq.

*Hybos pilipes*, *Meig. Dipt. ii. 349, 5. Curt. Brit. Ent. 661, 5.*

a. England. Presented by F. Walker, Esq.

*Hybos purpureus*, n. s., fem. *Niger, abdomine purpureo, antennis nigris, pedibus flavis fulvo piceo nigroque variis, alis fuscis apice limpidis.*

Body black, shining; front dark tawny: eyes dark bronze: feelers black: abdomen purple, tinged with bronze and blue: legs yellow; hips, tips of feet and hind shanks piceous, middle shanks and four front thighs tawny; hind hips and hind thighs black: wings very dark brown for more than half the length from the base, colourless thence to the tips; wing-ribs and poisers piceous; veins black. Length of the body 2 lines; of the wings 4 lines.

a. Georgia. From Mr. Abbot's collection.

*Hybos duplex*, n. s., mas. *Niger, antennis pedibusque nigris, genibus fulvis, pedibus flavis apice piceis, alis fuscis, apicibus marginibusque posticis subfuscis.*

Body black, shining: eyes dark bronze: feelers black: abdomen clothed with long hoary hairs: legs black: knees tawny; feet yellow, piceous towards the tips: wings brown, pale brown towards the tips and along the hind borders; wing-ribs and poisers piceous; veins black. Length of the body  $1\frac{3}{4}$  line; of the wings  $3\frac{1}{2}$  lines.

a. New York. Presented by E. Doubleday, Esq.

*Hybos triplex*, n. s., mas. *Niger, antennis nigris, pedibus piceis, femoribus tibiisque posticis et coxis nigris, pedibus flavis apice piceis, alis nigro-fuscis apice sublimpidis.*

Body black, shining: eyes dark bronze: feelers black: abdomen clothed with long hoary hairs: legs piceous; hips, hind thighs and hind shanks black; feet yellow, with piceous tips: wings dark brown for more than half the length from the base, nearly colourless from thence to the tips; wing-ribs and poisers piceous; veins black. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

**HYBOS reversus**, n. s. *Niger, antennis nigris, pedibus flavis, tibiis posticis coxis et femoribus nigris, femoribus anterioribus apice flavis, tibiis anterioribus basi fulvis, tarsis anterioribus apice tarsisque posticis fulvis, alis subfuscis vittis obscurioribus basi limpidis.*

Body black, shining : eyes dark bronze : feelers black : abdomen clothed with long hoary hairs : legs yellow ; hips, thighs, and hind shanks black ; tips of four front thighs yellow ; four front shanks tawny towards the base ; hind feet and tips of four front feet tawny : wings pale brown, darker along the borders of the veins, colourless at the base ; wing-ribs and poisers yellow ; veins piceous, yellow towards the base. Length of the body 2 lines ; of the wings 4 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

**HYBOS subjectus**, n. s. *Niger, antennis pedibusque nigris, genubus fulvis, tarsis anticis flavis apice piceis, tarsis posterioribus piceis basi flavis, alis nigro-fuscis apice subcinereis.*

Body black, shining : eyes dark red : feelers black ; legs black ; knees tawny ; fore feet yellow, piceous towards the tips ; four hind feet piceous, yellow at the base : wings dark brown for a little more than half the length from the base, tinged with gray from thence to the tips ; wing-ribs and veins black ; poisers piceous. Length of the body  $1\frac{1}{2}$  line ; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### OCYDROMIA, *Hoffmansegg.*

**OCYDROMIA glabricula**, *Fall. Dipt. Suec. Empid. 33, 12. Meig. Dipt. ii. 352, 1, pl. 21, f. 23. Macq. Hist. Nat. Dipt. i. 320, 1. Zett. Ins. Lapp. 536, 1.*

a. England. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

**OCYDROMIA rufipes**, *Meig. Dipt. ii. 353, 2, pl. 21, f. 24. Zett. Ins. Lapp. 536, 2.*

a. England. Presented by F. Walker, Esq.

b. France.

**OCYDROMIA scutellata**, *Meig. Dipt. ii. 354, 5. Macq. Hist. Nat. Dipt. i. 320, 3. Zett. Ins. Lapp. 537, 4.*

a. England. Presented by F. Walker, Esq.

*OCYDROMIA flavipes*, Megerle. *Meig. Dipt.* ii. 353, 4. *Zett. Ins. Lapp.* 537, 5.

a. Alten, Finmark. Presented by F. Walker, Esq.

*OCYDROMIA nigripennis*, *Meig. Dipt.* vi. 334, 7. *Macq. Hist. Nat. Dipt.* i. 320, 4. *Empis nigripennis*, *Fabr. Ent. Syst.* iv. 407. 20. *Tachydromia nigripennis*, *Fabr. Syst. Antl.* 144, 7.

a. England. Presented by F. Walker, Esq.

*OCYDROMIA peregrinata*, n. s. *Nigra, antennis nigris, pedibus fulvis, femoribus basi flavis, alis limpidis.*

Body black, shining: eyes and feelers black: legs tawny; thighs yellow towards the base: wings colourless: wing-ribs and poisers tawny; veins piceous. Length of the body  $1\frac{1}{4}$  line; of the wings 3 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

#### *CEDALEA, Meigen.*

*CEDALEA minuta*, *Meig. Dipt.* ii. 356, 2. *Zett. Ins. Lapp.* 538, 2. *Empis minuta*, *Fall. Empid.* 32, 40.

a. England. Presented by F. Walker, Esq.

#### *MICROPHORUS, Macquart.*

*MICROPHORUS flavipes*, *Macq. Hist. Nat. Dipt.* i. 346, 5. *Trichina flavipes*, *Meig. Dipt.* vi. 336, 1, pl. 65, f. 10, 11.

a. England. Presented by F. Walker, Esq.

b. Hammerfest, Finmark. Presented by F. Walker, Esq.

*MICROPHORUS clavipes*, *Macq. Hist. Nat. Dipt.* i. 346, 4. *Trichina clavipes*, *Meig. Dipt.* vi. 336, 2. *Hal. Ent. Mag.* i. 158.

a. England.

*MICROPHORUS elongatus*. *Trichina elongata*, *Haliday. Ent. Mag.* i. 156.

a. England. Presented by F. Walker, Esq.

*MICROPHORUS crassipes*, *Macq. Dipt. Nord.* 140, 1. *Hist. Nat. Dipt.* i. 346, 1. *Platypeza anomala*, *Meig. Dipt.* iv. 9. *Trichina crassipes*, *Meig. Dipt.* vii. 78, 3.

a. England. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

c. Hammersfest, Finmark. Presented by F. Walker, Esq.

**MICROPHORUS** drapetoides, *Barnston, MSS., mas. Nigra, antennis nigris, pedibus piceis, alis fuscis ad costam subfulvis.*

**Body black, hairy:** eyes piceous: feelers and lip black, the latter short: legs piceous, clothed with short black hairs: wings dark brown, slightly tawny along part of the fore borders from the base; wing-ribs and veins piceous. Length of the body  $1\frac{1}{4}$  line; of the wings  $2\frac{1}{4}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

#### CYRTOMA, Meigen.

**CYRTOMA** spuria, *Zett. Ins. Lapp. 533, 1. C. atra, Meig. Dipt. iv. 2, 1. Macq. Hist. Nat. Dipt. i. 360, 2. Empis spuria, Fall. Empid. 33, 43.*

a. England. Presented by F. Walker, Esq.

**CYRTOMA** nigra, *Meig. Dipt. iv. 3, 2. Macq. Hist. Nat. Dipt. i. 360, 1.*

a. England. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

**CYRTOMA** melœna, *Haliday, Ent. Mag. i. 158.*

a. England. Presented by F. Walker, Esq.

#### OPETIA, Meigen.

**OPETIA** nigra, *Meig. Dipt. vi. 357, 1, pl. 66, f. 17, 20. Macq. Hist. Nat. Dipt. ii. 21, 1. Curt. Brit. Ent. 489, 1.*

a. England. Presented by F. Walker, Esq.

#### SPANIA, Meigen.

**SPANIA** Edeta, n. s., mas. *Atra, antennis nigris, pedibus piceis, alis sublimpidis ad costam obscurioribus.*

**Body deep velvet-like black, hairy:** eyes piceous: feelers and lip black; first and second joints of the feelers very short; third joint conical, broader and much longer than the first and the second; spine as long as the third joint: legs piceous, clothed with short black hairs: wings nearly colourless, somewhat darker beneath the fore borders; wing-ribs, veins, and posers piceous. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## Fam. X. EMPIDÆ.

## HILARA, Meigen.

HILARA cilipes, Meig. *Dipt.* iii. 3, 1, *pl.* 22, *f.* 3. *Curt. Brit. Ent.* 130. *Macq. Hist. Nat. Dipt.* i. 340, 1. *Empis clavipes*, Harr. *Ex.* 150, *pl.* 44, *f.* 3.

a. England.

b. England. Presented by F. Walker, Esq.

HILARA maura, Zett. *Ins. Lapp.* 555, 3. *H. globulipes*, Meig. *Dipt.* iii. 3, 2. *Macq. Hist. Nat. Dipt.* i. 340, 2. *Empis maura*, Fabr. *Sp. Ins.* ii. 471. *Ent. Syst.* iv. 404, 7. *Syst. Antl.* 139, 9. *Fall. Empidæ*, 23, 16. *Meig. Klass. Zweif.* i. 222, 8, *pl.* 2, *f.* 28. *Schell. Gen. Mouch.* *pl.* 30, *f.* 3. *Bibio senilis*, Panz. *Faun. Germ.* 54, 3.

a. England.

b. England. Presented by F. Walker, Esq.

c. France.

d. Alten, Finmark. Presented by F. Walker, Esq.

HILARA chorica, Meig. *Dipt.* iii. 4, 3. *Macq. Hist. Nat. Dipt.* i. 340, 3. Zett. *Ins. Lapp.* 556, 8. *Empis chorica*, Fall. *Empid.* 24, 18.

a. England. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

HILARA nigrina, Meig. *Dipt.* iii. 4, 5. *Macq. Hist. Nat. Dipt.* i. 341, 6. *Empis nigrina*, Fall. *Empid.* 24, 19.

a. England.

b. England. Presented by F. Walker, Esq.

c. Alten, Finmark. Presented by F. Walker, Esq.

HILARA interstincta, Meig. *Dipt.* iii. 6, 8. Zett. *Ins. Lapp.* 555, 4. *Empis interstincta*, Fall. *Empid.* 24, 17.

a. England. Presented by F. Walker, Esq.

HILARA pruinosa, Megerle, Meig. *Dipt.* iii. 7, 10.

a. England. Presented by F. Walker, Esq.

HILARA litorea, Meig. *Dipt.* iii. 8, 13. *Macq. Hist. Nat. Dipt.* i. 343, 15. *Empis litorea*, Fall. *Empid.* 24, 20.

a. England. Presented by F. Walker, Esq.

*HILARA fuscipes*, Meig. Dipt. iii. 6, 9. Macq. Hist. Nat. Dipt. i. 342, 11. Zett. Ins. Lapp. 555, 2. *Empis fuscipes*, Fabr. Ent. Syst. iv. 406, 14. Meig. Klass. Zweif. i. 227, 21. *Empis plumbea*, Fabr. Ent. Syst. iv. 406, 17. Meig. Klass. Zweif. i. 233, g. *Tachydromia fuscipes*, Fabr. Syst. Antl. 144, 5. *T. plumbea*, Fabr. Syst. Antl. 144, 6. *Empis albida*, Meig. Klass. Zweif. i. 233, e. *E. intermedia*, Fall. Empid. 23, 15.  
a. England.

*HILARA thoracica*, Macq. Dipt. Nord. 115, 14. Hist. Nat. Dipt. i. 343, 18. Meig. Dipt. vii. 81, 26.  
a. England. Presented by F. Walker, Esq.

*HILARA nana*, Macq. Dipt. Nord. iii. 4. Hist. Nat. Dipt. i. 341, 4. Meig. Dipt. vii. 80, 23.  
a. England. Presented by F. Walker, Esq.

*HILARA transfuga*, n. s., fem. *Nigra, antennis nigris, pedibus piceis, alis nigro-fuscis, stigmatibus nigris.*

Body black, clothed with short black hairs: eyes, mouth, and feelers black: legs piceous, clothed with black hairs; wings dark brown; wing-ribs and veins black; brands black; poisers piceous. Length of the body  $1\frac{1}{2}$ —2 lines; of the wings 3—4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*HILARA migrata*, n. s., mas. *Nigra, antennis nigris, pedibus fulvis, alis cinereis, stigmatibus fusco.*

Body black, hairy: eyes piceous: feelers and lip black, the latter short: legs dark tawny, clothed with short black hairs: wings gray; wing-ribs, veins, and poisers piceous; wing-brands brown. Length of the body 1 line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*HILARA Bares*, n. s. mas. *Fusca, antennis nigris pectore cano, pedibus fulvis, tarsis fuscis, alis subfuscis ad costam fuscis.*

Body brown, clothed with short black hairs; eyes dark red: feelers and mouth black: breast hoary: legs tawny, clothed with short black hairs; feet brown: wings light brown, darker for one-third of the length along the fore border; wing-ribs and veins piceous; poisers brown. Length of the body  $1\frac{1}{4}$  line; of the wings 3 lines.

a. East India. Presented by Captain Parry.

## GLOMA, Meigen.

GLOMA Phthia, n. s., mas. *Nigra, antennis nigris, pedibus flavis, femoribus fulvis, pedibus posticis longis validis, alis nigro-cinereis.*

Body black, hairy : eyes dark red : feelers black : lip tawny, a little longer than the head : legs yellow ; thighs tawny ; hind legs long and stout, their thighs and shanks piceous : wings dark gray ; wing-ribs piceous ; veins black ; poisers dark tawny, with piceous knobs. Length of the body 2 lines ; of the wings 4 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*Note.*—The wings of this species have two cross-veins, which do not appear in the wings of *G. fuscipennis*, and the fork of the vein at the tip is wanting.

## EMPIS, Linn.

## Group I.

EMPIS tessellata, *Fabr. Ent. Syst.* iv. 405, 10. *Syst. Antl.* 140, 13. *Latr. Gen. Crust.* iv. 303. *Wied. Zool. Mag.* i. 2, 25. *Fall. Empid.* 17, 2. *Lam. Anim. sans Vert.* iii. 402, 3. *Meig. Dipt.* iii. 17, 1. vi. 337. *Curt. Brit. Ent.* 18, 1, 2nd edit. *Macq. Hist. Nat. Dipt.* i. 327, 2. *Empis livida, Fabr. Ent. Syst.* iv. 405, 10. *Sp. Ins.* ii. 471, 5. *Syst. Antl.* 139, 10. *Turt.* iii. 666.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

EMPIS opaca, *Fabr. Syst. Antl.* 138, 7. *Meig. Dipt.* iii. 17, 2. *Macq. Hist. Nat. Dipt.* i. 328, 5. *E. rufipes, Fabr. Syst. Antl.* 138, 5.

a. England:

b. ——— ? From Mr. Children's collection.

EMPIS livida, *Linn. Syst. Nat. Ed.* xii. 2, 1003, 3. *Faun. Suec.* 1897. *Dey. Ins.* vi. 101, 1, pl. 14, f. 14. *Schell. Gen. Mouch.* pl. 31, f. 1. *Herbst. Gem. Nat.* viii. 118, pl. 344, f. 2. *Geoff. Ins.* ii. 474, 17. *Schrank. Faun. Boic.* iii. 2573. *Harr. Ex.* 149, pl. 44, f. 1. *Stew. El.* ii. 270. *Latr. Gen. Crust.* iv. 303. *Fall. Empid.* 18, 4. *Lam. Anim. sans Verteb.* iii. 401, 2. *Meig. Dipt.* iii. 35, 36. *Curt. Brit. Ent.* 18, 5, 2nd edit.

*Journ. Roy. Agric. Soc.* vi. 2. *Macq. Hist. Nat. Dipt.* i. 329, 7. *Zett. Ins. Lapp.* 560, 2. *E. lineata*, *Fabr. Syst. Antl.* 141. *E. fugeo* (fem.), *Harr. Ex.* 150, pl. 44, f. 2.

a. England.

b. ———? From Mr. Children's collection.

**EMPIS Eudamides**, n. s., mas. *Fulva, capite thoracisque vittis quatuor cinereis, abdomine nigro apice fulvo, antennis fulvis apice nigris, pedibus fulvis, genubus nigris, femoribus anterioribus nigro vittatis, alis sublimpidis basi fulvis.*

Head gray, narrower than the chest, clothed with short black hairs: eyes red: mouth tawny, with a black tip, as long as the chest: feelers tawny, black towards their tips, longer than the head: chest paler on each side, beset with short black hairs, adorned on the back with four gray stripes: abdomen black, shining, clothed with black hairs, its tip tawny: legs tawny, clothed with short black hairs; hips and trochanters gray; knees black; tips of feet piceous; a short black stripe on each of the four front thighs: wings nearly colourless, tawny towards the base. Length of the body 3 lines; of the wings 7 lines.

a. North America. Presented by the Entomological Club.

**EMPIS Amytis**, n. s., mas. *Fulva, capite thoracis disco abdomineque nigris, abdominis lateribus fulvis, antennis nigris, pedibus fulvis, tarsis apice genubusque nigris, alis limpidis.*

Head black, much narrower than the chest: eyes dark red: mouth tawny, with a black tip, much shorter than the chest: eyes dark red: feelers black: chest and breast tawny; disk of the former black: abdomen black, dull, tawny along each side: legs tawny, clothed with short black hairs; knees and tips of feet black: wings colourless; wing-ribs and poisers tawny; veins piceous, tawny towards the base. Length of the body  $2\frac{1}{2}$  lines; of the wings 8 lines.

a. New York. Presented by the Entomological Club.

**EMPIS Ollius**, n. s., fem. *Fulva, capite cinereo, thoracis vittis quatuor fuscis, abdomine antennisque nigris, pedibus fulvis, tarsis apice piceis, alis subfulvis.*

Nearly allied to *E. Abcirus*: head gray, thinly clothed beneath with black hairs: hypostoma black, shining: lip dark tawny, piceous at the tip, shorter than the body: eyes bright red: feelers black: chest and breast dull tawny: chest adorned with four brown stripes, between which are rows of short black bristles; the hinder part of the chest is beset with longer black bristles: abdomen black, shining:



legs tawny, beset with short black hairs and bristles; hips black; feet piceous towards the tips: wings slightly tawny; wing-ribs and poisers bright tawny; veins piceous, tawny towards the base and along the fore borders. Length of the body 2 lines; of the wings 4 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**EMPIS** Abcirus, n. s., mas. *Fulvo-cana, thoracis vittis quatuor cinereis, abdomine nigro, antennis fulvis apice nigris, pedibus fulvis, tarsis apice piceis, alis limpidis.*

Head hoary, thinly clothed beneath with black hairs: hypostoma black: lip tawny for more than half its length, black thence to the tip, nearly as long as the body: eyes bright red: feelers black; first and second joints dark tawny: chest and breast hoary, with a tawny tinge: chest adorned with four gray stripes, between which are rows of short black bristles; the hind border of the chest is beset with longer black bristles: abdomen black, shining: legs tawny, beset with short black hairs and bristles; hips black; feet piceous towards the tips; foot-cushions and claws tawny: wings colourless; wing-ribs and poisers bright tawny; veins piceous, tawny towards the base and along the fore borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Georgia. From Mr. Abbot's collection.

## Group II.

**EMPIS** pennipes, Linn. *Syst. Nat. Ed. xii.* 103, 2: *Faun. Suec.* 1896. *Gmel. Ed. Syst. Nat.* v. 2889, 2. *Fabr. Sp. Ins.* ii. 471, 2. *Ent. Syst.* iv. 404, 5. *Syst. Antl.* 138, 6. *Sulz. Ins. pl.* 21, f. 137. *Panz. Faun. Germ.* 74, 18. *Schell. Gen. Mouch. pl.* 35, 2. *Schæf. Icon. pl.* 192, f. 3. *Latr. Gen. Crust.* iv. 303. *Cons. Gén.* 443. *Regn. Anim.* v. 459. *Stew. El.* ii. 269. *Turt.* iii. 665. *Wood, Ill. Linn. Gen. Ins.* ii. 100, pl. 68. *Lam. Anim. sans Verteb.* iii. 401, 1. *Meig. Dipt.* iii. 21, 8. *Curt. Brit. Ent.* 18, 27, 2nd edit. *Macq. Hist. Nat. Dipt.* i. 331, 16. *Zett. Ins. Lapp.* 561, 6. *Empis pennata*, Schrank. *Ins. Austr.* 987. *Faun. Boic.* iii. 2571. *E. ciliata*, Meig. *Klass. Zweif.* i. 220, 3. *Fall. Empid.* 20, 8. *E. longirostris*, Meig. *Klass. Zweif.* i. 223, 11.

a. England.

b. England. Presented by F. Walker, Esq.

## Group III.

*EMPIS lepidopus*, *Meig. Dipt.* iii. 23, 12. *Curt. Brit. Ent.* 18, 24, 2nd. edit.

a. England.

b. England. Presented by F. Walker, Esq.

*EMPIS holosericea*, *Latr. MSS.*? *Cinerea, antennis nigris, alis albidis.*

Body gray, dull, thickly clothed with black hairs: feelers black: eyes dark red: legs gray, clothed with short black hairs and bristles; claws black; foot-cushions tawny: wings whitish; wing-ribs and poisers ferruginous; veins brown. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. France.

*EMPIS pennaria*, *Fall. Empid.* 20, 9. *Meig. Dipt.* iii. 23, 13. *Curt. Brit. Ent.* 18, 22, 2nd edit. *Macq. Dipt. Nord.* 125, 14. *Hist. Nat. Dipt.* i. 331, 19. *Zett. Ins. Lapp.* 562, 7.

a. England. Presented by F. Walker, Esq.

*EMPIS vitripennis*, *Meig. Dipt.* iii. 24, 15. *Macq. Hist. Nat. Dipt.* i. 332, 25.

a. England.

b. England. Presented by F. Walker, Esq.

*EMPIS leucoptera*, *Meig. Dipt.* iii. 27, 18.

a. England.

b. England. Presented by F. Walker, Esq.

*EMPIS vernalis*, *Meig. Dipt.* iii. 27, 19.

a. England. Presented by F. Walker, Esq.

*EMPIS chioptera*, *Fall. Empid.* 21, 11. *Meig. Dipt.* iii. 27, 20. *Curt. Brit. Ent.* 18, 18, 2nd edit. *Macq. Dipt. Nord.* 128, 21. *Hist. Nat. Dipt.* i. 330, 14. *Zett. Ins. Lapp.* 561, 4. *E. crassipes*, *Schrank. Ins. Austr.* 988. *Faun. Boic.* iii. 2576.

a. England.

b. England. Presented by F. Walker, Esq.

*EMPIS antarctica*, *Walker, Linn. Trans.* xvii. 341, 26.

a. Port Famine. Presented by the Entomological Club.

**EMPIS** *Cormus*, n. s., mas. et fem. *Niger*, (mas.) aut *cinereus* (fem.) *antennis nigris*, fem. *thoracis vittis tribus abdominisque fasciis canis*, *pedibus nigris*, *genubus fulvis*, *tibiis tarsisque piceis*, *alis limpidis*.

Body of the male black, of the female gray: lip, eyes, and feelers black: chest of the female adorned with three indistinct hoary stripes: hind borders of abdominal segments of the female hoary: legs black; knees tawny; shanks and feet piceous: wings colourless, rather broad; wing-ribs and veins piceous, the latter strongly marked; poisers piceous. Length of the body  $1\frac{3}{4}$ —2 lines; of the wings  $3\frac{1}{2}$ —4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**EMPIS** *Agasthus*, n. s., fem. *Nigra*, *antennis nigris*, *pedibus fulvis*, *femoribus tibiis tarsisque apice piceis*, *alis limpidis*.

Body, eyes and feelers black: legs tawny, rather hairy; thighs, shanks, and feet piceous towards the tips: wings colourless; wing-ribs and veins pale tawny; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

#### Group IV.

**EMPIS** *luctuosa*, Kirby, *North Amer. Zool. Ins.* 311, 1.

a. Nova Scotia. From Lieut. Redman's collection.

#### Group V.

**EMPIS** *Bistortæ*, Meig. *Dipt.* iii. 29, 22. *Curt. Brit. Ent.* 18, 17, 2nd edit. *Macq. Hist. Nat. Dipt.* i. 329, 10.

a. England.

b. England. Presented by F. Walker, Esq.

c. Hammerfest, Finmark. Presented by F. Walker, Esq.

**EMPIS** *pilipes*, Meig. *Dipt.* iii. 31, 29.

a. England. Presented by F. Walker, Esq.

#### Group VI.

**EMPIS** *nigritarsis*, Meig. *Dipt.* iii. 32, 31. vi. 337. *Curt. Brit. Ent.* 18, 14, 2nd. edit. *Macq. Hist. Nat. Dipt.* i. 329, 9,

a. England. Presented by F. Walker, Esq.

## Group VII.

- EMPIS borealis**, *Linn. Syst. Nat.* ii. 1003. *Faun. Suec.* 1895. *Gmel. Ed. Syst. Nat.* v. 2889, 1. *Fabr. Sp. Ins.* ii. 471, 1. *Ent. Syst.* iv. 403, 1. *Syst. Antl.* 137, 1. *Deg. Ins.* vi. 102, 2, pl. 14, f. 17. *Herbst, Gem. Nat.* viii. 117, pl. 344, f. 1, *Schrank. Faun. Boic.* iii. 2570. *Turt.* iii. 665. *Fall. Empid.* 16, 1. *Meig. Dipt.* iii. 36, 37. *Curt. Brit. Ent.* 18, 1, 2nd edit. *Macq. Dipt. Nord.* 122, 9. *Hist. Nat. Dipt.* i. 328, 6. *Zett. Ins. Lapp.* 560, 1. *Platypterygia borealis*, *Steph. Cat. Brit. Ins.* 2, 263. *Platyptera borealis*, *Meig.*
- a. England. Presented by F. Walker, Esq.
  - b. Hammerfest, Finmark. Presented by F. Walker, Esq.

## Group VIII.

- EMPIS stercorea**, *Linn. Syst. Nat.* ii. 1004. *Faun. Suec.* 1899. *Gmel. Ed. Syst. Nat.* v. 2890, 5. *Fabr. Sp. Ins.* ii. 472, 8. *Ent. Syst.* iv. 406, 16. *Syst. Antl.* 141, 21. *Stew. El.* ii. 270. *Turt.* iii. 667. *Latr. Gen. Crust.* iv. 303. *Schrank. Ins. Austr.* 986. *Wied. Zool. Mag.* i. 2, 25. *Meig. Dipt.* iii. 37. *Curt. Brit. Ent.* 18, 6, 2nd edit. *Macq. Hist. Nat. Dipt.* i. 330, 12. *Zett. Ins. Lapp.* 561, 5. *Empis pertinax*, *Harr. Ex.* 120, pl. 44, f. 5.
- a. England.
  - b. England. Presented by F. Walker, Esq.
- EMPIS testacea**, *Fabr. Syst. Antl.* 141, 20. *Latr. Gen. Crust.* iv. 303. *Meig. Dipt.* iii. 37, 39. *Curt. Brit. Ent.* 18, 10, 2nd edit.
- a. England.
  - b. England. Presented by F. Walker, Esq.
- EMPIS lutea**, *Meig. Dipt.* iii. 37, 40. *Curt. Brit. Ent.* 18, 11, 2nd edit. *Macq. Hist. Nat. Dipt.* i. 330, 13. *E. certus*, *Harr. Ex.* 150, pl. 44, f. 6.
- a. England.
  - b. England. Presented by F. Walker, Esq.
  - c. France.
  - d. ———? From Mr. Children's collection.

- EMPIS ignota**, *Meig. Dipt.* vi. 338. *E. punctata*, *Fall. Empid.* 19, 6. *Meig. Dipt.* iii. 38, 41. *Curt. Brit. Ent.* 18, 7, 2nd edit.
- a. England. Presented by F. Walker, Esq.
  - b. France.

*EMPIS colonica*, n. s., mas. *Fulva, abdomine obscuriore, antennis nigris, pedibus fulvis, tarsis apice piceis, alis subfulvis.*

Body bright tawny, shining, smooth, beset with a few short slender black bristles: eyes and feelers black: lip tawny, piceous towards the tip, much more than half the length of the body: abdomen dark tawny, clothed with black hairs: legs pale tawny, thinly clothed with short black hairs and bristles; feet piceous towards the tips: wings with a tawny tinge; wing-ribs tawny; veins brown, tawny towards the base; poisers pale yellow. Length of the body 3 lines; of the wings 7 lines.

a. Nova Scotia. From Lieut. Redman's collection.

### Group IX.

*EMPIS femorata*, *Fabr. Ent. Syst. Supp.* 568. *Syst. Antl.* 140. *Coq. Ill. Icom. pl.* 27, f. 8, 14. *Latr. Gen. Crust.* iv. 303. *Meig. Dipt.* iii. 40, 45, pl. 22, f. 20. *Curt. Brit. Ent.* 18, 29, 2nd edit. *Pachymeria femorata*, *Steph.* *Pachymerina femorata*, *Macq. Hist. Nat. Dipt.* i. 333, 1.

a. England.

b. England. Presented by F. Walker, Esq.

c. ———? From Mr. Children's collection.

### RHAMPHOMYIA, *Meigen.*

#### Group I.

*RHAMPHOMYIA marginata*, *Meig. Dipt.* iii. 43, 1. *Macq. Hist. Nat. Dipt.* i. 336, 8. *Empis marginata*, *Fabr. Ent. Syst.* iv. 403, 3. *Syst. Antl.* 138, 3. *Gmel. Ed. Syst. Nat.* v. 2889, 6. *Latr. Gen. Crust.* iv. 304. *Meig. Klass. Zweif.* i. 228, 25, pl. 11, f. 29. *E. platyptera*, *Panz. Faun. Germ.* xxiv. 23.

a. South Europe.

#### Group II.

*RHAMPHOMYIA rugicollis*, *Meig. Dipt.* iii. 46, 8.

a. England. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

**RHAMPHOMYIA sulcata**, *Meig. Dipt.* iii. 46, 9. *Macq. Hist. Nat. Dipt.* i. 335, 3. *Zett. Ins. Lapp.* 565, 12. *Empis fixus*, *Harr. Ex.* 151, *pl.* 44, *f.* 8. *Empis sulcata*, *Meig. Klass. Zweif. i.* 229, 26. *Fall. Empid.* 26, 25.

a. England.

b. England. Presented by F. Walker, Esq.

c. France.

d. Hammerfest, Finmark. Presented by F. Walker, Esq.

e. Isle of Sorøe, Finmark. Presented by F. Walker, Esq.

**RHAMPHOMYIA nigripes**, *Meig. Dipt.* iii. 48, 13. *Macq. Hist. Nat. Dipt.* i. 336, 9. *Zett. Ins. Lapp.* 562, 1. *Empis vicanus*, *Harr. Ex.* 151, *pl.* 44, *f.* 9. *Empis nigripes*, *Fabr. Ent. Syst.* iv. 405, 13. *Syst. Antl.* 141, 17. *Klass. Zweif. i.* 229, 27. *E. crassirostris*, *Fall. Empid.* 31, 37.

a. England.

b. ———? From Mr. Children's collection.

**RHAMPHOMYIA lævipēs?** *Meig. Dipt.* iii. 49, 14. *Empis lævipēs*, *Fall. Empid.* 27, 26.

a. France.

**RHAMPHOMYIA variabilis**, *Meig. Dipt.* iii. 51, 18. *Macq. Hist. Nat. Dipt.* i. 537, 12. *Zett. Ins. Lapp.* 569, 30. *Empis variabilis*, *Fall. Empid.* 29, 33.

a. England. Presented by F. Walker, Esq.

b. France.

**RHAMPHOMYIA Cophas**, n. s. *Nigra, antennis pedibusque nigris, tibiis rufis, alis subfuscis, stigmatē fusco.*

Body black, clothed with short black hairs: eyes piceous: feelers black; lip black, a little longer than the chest: legs black, clothed with short black hairs and bristles; shanks dark red; wings slightly tinged with brown, a slender brown band near the tip of the fore-border; wing-ribs piceous; veins black, piceous at the base; poisers tawny. Length of the body 8 lines; of the wings 6 lines.

a. New York. Presented by the Entomological Club.

**RHAMPHOMYIA Agasicles**, n. s. fem. *Nigra, antennis nigris, pedibus piceis, posticis longis validis, tarsis posticis latis, alis fuscis.*

Body black, shining: eyes piceous: feelers and lip black, the latter longer than the head: legs piceous, thinly covered with black

down; hind legs long and stout; hind feet somewhat widened: wings dark brown; wing-ribs piceous; veins black, piceous towards the base; poisers tawny. Length of the body  $1\frac{1}{4}$ — $1\frac{1}{2}$  line; of the wings  $3$ — $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**RHAMPHOMYIA** Phemius, n. s., mas. et fem. *Cinerea; thoracis vittis tribus nigris, antennis nigris, pedibus piceis, alis mari. limpidis fem. fuscis.*

Body very dark gray: eyes piceous: feelers and lip black, the latter longer than the head: chest clothed with black hairs, adorned with three black stripes: legs piceous, clothed with short black hairs: wings of the male colourless, of the female dark brown; wing-ribs piceous; veins black, piceous towards the base; poisers ferruginous. Length of the body  $1\frac{1}{2}$  line; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**RHAMPHOMYIA** Ecetra, n. s. mas. *Nigra, thoracis vittis tribus cinereis, antennis pedibusque nigris, femoribus anticis subtus ferrugineis, alis fuscis.*

Body black, clothed with black hairs and bristles: eyes red; lip black: feelers black; first and second joints beset with very short black hairs; third clothed with long tawny hairs: chest adorned with three dark gray stripes: legs black, thickly fringed with very short black hairs; fore-thighs ferruginous beneath; wings dark brown; wing-ribs and poisers ferruginous; veins piceous, ferruginous towards the base. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. Georgia. From Mr. Abbot's collection.

**RHAMPHOMYIA** Anaxo, n. s., mas. et fem. *Cinerea, abdomine nigro, antennis nigris, pedibus piceis, alis subfulvis.*

Body gray, slightly hairy: feelers black: eyes piceous: lip black, shorter than the chest: abdomen black, shining: legs piceous, slightly covered with black down: wings with a slight tawny tinge, nearly colourless at the tips and along the hind borders; wing-ribs and poisers tawny; veins piceous, tawny towards the base. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*RHAMPHOMYIA flavirostris*, Barnston's MSS., mas. et fem. *Fulvocana*, abdomine subtus fulvo, antennis nigris, pedibus fulvis, fem. tibiis apice tarsisque nigris, alis sublimpidis.

Body hoary, with a dark tawny tinge, beset with black hairs: eyes red: feelers pubescent, black: lip piceous, clothed with short hairs, shorter than the chest: abdomen tawny beneath: legs tawny, thickly clothed with very short, black hairs: legs of the female rather paler than those of the male; feet and tips of the shanks black: wings nearly colourless; wing-ribs, veins and poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*RHAMPHOMYIA Ficana*, n. s., fem. *Cinereo-fulva*, abdomine nigro, antennis nigris, pedibus fulvis, alis limpidis.

Body grayish tawny, beset with black hairs and bristles: eyes red: lip tawny, shorter than the chest: feelers black: abdomen black, shining: legs tawny, clothed with short black hairs: wings colourless, wing-ribs, veins and poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*RHAMPHOMYIA longipes*, Meig. *Dipt.* iii. 55, 26, pl. 22, f. 3. *Macq. Hist. Nat. Dipt.* i. 339, 23. *Empis longipes*, Meig. *Klass. Zweif.* i. 231, 34.

a. England. Presented by F. Walker, Esq.

*RHAMPHOMYIA holosericea*, Meig. *Dipt.* iii. 58, 33, vi. 339. *Empis holosericea*, Meig. *Klass. Zweif.* i. 231, 33. *E. gibba*, Fall. *Empid.* 32, 41. *Rhamphomyia gibba*, Meig. *Dipt.* iii. 58, 32.

a. England. Presented by F. Walker, Esq.

### Group III.

*RHAMPHOMYIA cæsia*, Hoffmansegg. Meig. *Dipt.* iii. 56, 29, vi. 339. *Macq. Hist. Nat. Dipt.* i. 338, 18. *R. schistacea*, Meig. *Dipt.* iii. 57, 30.

a. England. Presented by F. Walker, Esq.

*RHAMPHOMYIA albipennis*, Meig. *Dipt.* iii. 59, 35. *Empis albipennis*, Fall. *Empid.* 30, 36.

a. England. Presented by F. Walker, Esq.

b. France.



**RHAMPHOMYIA nigripennis**, Zett. *Ins. Lapp.* 569, 31. *R. umbripennis*, Meig. *Dipt.* iii. 54, 25, vi. 339. *Macq. Hist. Nat. Dipt.* i. 338, 17. *Empis nigripennis*, Fall. *Empid.* 30, 34.

a. England. Presented by F. Walker, Esq.

b. Hammerfest, Finmark. Presented by F. Walker, Esq.

c. Isle of Sorøe, Finmark. Presented by F. Walker, Esq.

**RHAMPHOMYIA Mallos**, n. s., fem. *Cinerea, thoracis vittis tribus nigris, antennis nigris, pedibus piceo-ferrugineis, femoribus tibisque ciliatis, alis latis fulvo-fuscis.*

Body dark gray, clothed with short, stout black hairs: eyes red: mouth and feelers black; third joint of feelers rather broad: chest adorned with three black stripes: legs dark ferruginous or almost piceous, hairy; thighs and shanks very thickly fringed: wings ample, very dark brown, with a tawny tinge, slightly paler at the tips and along the hind borders; wing-ribs piceous; veins black; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**RHAMPHOMYIA Minytus**, n. s., mas. *Nigra, antennis nigris, pedibus piceis, tibiis tarsisque posticis latis, alis limpidis.*

Body black, shining, thickly clothed with black hairs: eyes piceous: feelers and lip black, the latter a little longer than the head: legs piceous, pubescent; hind shanks widened towards the tips; hind feet clothed with black hairs, first joint long, much widened, very large, second slightly widened: wings colourless; wing-ribs and poisers tawny; veins piceous, tawny towards the base. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**RHAMPHOMYIA Dana**, n. s., fem. *Cinerea, thoracis vittis tribus fuscis, ventre ferrugineo, antennis nigris, pedibus fulvis, femoribus tibisque posterioribus ciliatis, alis subcinereis.*

Body gray: eyes dark red: feelers black: lip black, longer than the head: chest adorned with three brown stripes, thinly clothed with black hairs: abdomen dark ferruginous beneath: legs tawny; thighs and shanks of the middle and of the hind legs, especially of the latter, beautifully fringed with long black hairs: wings slightly gray; wing-ribs and poisers yellow; veins tawny,

yellow towards the base. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{4}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

RHAMPHOMYIA pennata, *Macquart, Dipt. Nord. vi. Hist. Nat. Dipt. i. 338, 19. Curt. Brit. Ent. 517.*

a. England. Presented by F. Walker, Esq.

#### Group IV.

RHAMPHOMYIA Daria, n. s., mas. *Cinereo-nigra, antennis nigris, pedibus fulvis, femoribus apice tibiisque posticis piceis, genubus flavis, tarsis nigris, alis limpidis fulvo subvittatis.*

Body black, with a slight gray tinge: eyes red: lip black, about twice the length of the head: feelers black: legs tawny; tips of thighs above piceous; knees yellow; shanks darker than the thighs; hind shanks piceous; feet black, dark tawny at the base: wings colourless, with a slight tawny tinge along some of the borders of the veins; wing-ribs tawny; veins piceous, tawny towards the base. Length of the body  $2\frac{1}{4}$  lines; of the wings 6 lines.

a. New York. Presented by E. Doubleday, Esq.

RHAMPHOMYIA flava, *Meig. Dipt. iii. 59, 36. Macq. Hist. Nat. Dipt. i. 335, 2. Zett. Ins. Lapp. 572, 45. Empis flava, Fall. Empid. 30, 35.*

a. England. Presented by F. Walker, Esq.

RHAMPHOMYIA carbonaria, *Hoffmansegg. Meig. Dipt. iii. 59, 34.*  
a. Hammerfest, Finmark. Presented by F. Walker, Esq.

#### Fam. XI TACHYDROMIÆ.

##### HELIODROMIA, *Haliday.*

##### Div. I.

HELIODROMIA immaculata, *Haliday, Ent. Mag. i. 159. Curt. Brit. Ent. 513, 1. Macq. Hist. Nat. Dipt. ii. 658, 1. Hemerodromia immaculata, Meig. Dipt. vii. 93, 11.*

a. England. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

## Div. II.

**HELIODROMIA unicolor**, *Curt. Brit. Ent.* 513, 3.

a. France.

**HELIODROMIA stagnalis**, *Haliday, Ent. Mag.* i. 159. *Curt. Brit. Ent.* 513, 4. *Hydrodromia stagnalis*, *Macq. Hist. Nat. Dipt.* ii. 658, 2. *Hemerodromia stagnalis*, *Macq. Dipt.* vii. 93, 3.

a. England. Presented by F. Walker, Esq.

**HELIODROMIA longipes**, *Barnston's MSS.* *Cana, thorace cinereo-fulvo, vittis duabus fulvo-fuscis, antennis nigris, pedibus canis, alis subcinereis.*

Body hoary: eyes piceous: feelers and mouth black: chest grayish tawny, adorned with two yellowish brown stripes: legs hoary, very long: wings slightly gray; wing-ribs piceous; veins black, piceous towards the base; poisers piceous, tawny at the base. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ARDOPTERA, *Macquart.*

**ARDOPTERA irrorata**, *Macq. Dipt. Nord. France*, 106, 1, *pl.* 3, *f.* 2. *Hist. Nat. Dipt.* i. 358, 1, *pl.* 8, *f.* 3. *Leptosceles irrorata*, *Haliday, Ent. Mag.* i. 161. *Tachydromia irrorata*, *Fall. Empid.* 13, 17.

a. England. Presented by F. Walker, Esq.

**ARDOPTERA guttata**. *Hemerodromia irrorata*, *Meig. Dipt.* iii. 66, 9, *pl.* 23, *f.* 11. *Zett. Ins. Lapp.* 544, 9. *Leptosceles guttata*, *Hal. Ent. Mag.* i. 160.

a. England. Presented by F. Walker, Esq.

**HEMERODROMIA**, *Hoffmansegg.*A. *One discoidal areolet.*

**HEMERODROMIA monostigma**, *Hoffmansegg, Meig. Dipt.* iii. 62, 1, *pl.* 23, *f.* 6. *Zett. Ins. Lapp.* 543, 5. *Tachydromia præcatoria*, *Fall. Dipt. Suec. Empid.* 10, 12. *Var. pallida. Add.* 34, 12. *Hemerodromia præcatoria*, *Macq. Hist. Nat. Dipt.* i. 347, 3.

a. England. Presented by J. C. Dale, Esq.

*HEMERODROMIA albipes*, Barnston's MSS., mas. et fem. *Fulvocana*, *antennis fulvis apice nigris*, *pedibus flavis*, *alis limpidis*.

Body slender, hoary, with a slight tawny tinge: eyes dark red: mouth tawny: feelers pale tawny, black towards the tips: legs pale yellow; tips of feet piccous: wings colourless; wing-ribs pale yellow; veins tawny, pale yellow towards the base; poisers yellow. Length of the body  $1\frac{1}{2}$ —2 lines; of the wings  $3\frac{1}{2}$ —4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*HEMERODROMIA præcatoria*, Meig. *Dipt.* iii. 62, 2, pl. 23, f. 13. H. monostigma, Macq. *Dipt. Nord.* 104, 5, pl. 3, f. 1. *Hist. Nat. Dipt.* i. 347, 1. *Tachydromia præcatoria*, Fall. *Empid.* 10, 12; 34, 12.

a. England.

b. England. Presented by F. Walker, Esq.

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*HEMERODROMIA obsecratoria*, Walk. *Ent. Mag.* iv. 228.

a. England. Presented by F. Walker, Esq.

b. France.

B. No discoidal areolet. *Phyllodromia*, Zetterstedt.

*HEMERODROMIA melanocephala*, Haliday, *Ent. Mag.* i. 158. Zett. *Ins. Lapp.* 544, 6. H. mantispa, Meig. *Dipt.* iii. 64, 5, pl. 23, f. 9. Macq. *Dipt. Nord.* 102, 1, pl. 2, f. 5. *Hist. Nat. Dipt.* i. 349, 7. *Empis melanocephala*, Fab. *Ent. Syst.* iv. 407, 21. *Tachydromia melanocephala*, Fabr. *Syst. Antl.* 144, 8. Fall. *Empid.* 12, 16. *Sicus raptor*, Latr. *Gen. Crust.* iv. 304, pl. 16, f. 11, 12. *Tachydromia mantispa*, Panz. *Faun. Germ.* iii. 16.

a. England. Presented by F. Walker, Esq.

b. France.

*ELAPHROPEZA*, Macquart.

*ELAPHROPEZA ehippiata*, Macq. *Dipt. Nord.* 1. *Hist. Nat. Dipt.* i. 359, 1, pl. 8, f. 14. *Tachydromia ehippiata*, Fall. *Empid.* 11, 14. *Hemerodromia ehippiata*, Meig. *Dipt.* iii. 65, 8.

a. England. Presented by F. Walker, Esq.

b. France.

## TACHYDROMIA, Meigen.

## Group 1.

TACHYDROMIA cimicoides, *Fabr. Syst. Anth.* 144, 4. *Meig. Dipt.* vi. 341. *Macq. Hist. Nat. Dipt.* i. 349, 1. *T. arrogans*, *Fall. Empid.* 13, 18. *Meig. Dipt.* iii. 68, 1. *Curt. Brit. Ent.* 477, 1. *Musca cimicoides*, *Fabr. Sp. Ins.* ii. 447, 61. *Ent. Syst.* iv. 339, 115. *Gmel. Ed. Syst. Nat.* v. 2852, 231. *Sicus arrogans*, *Latr. Gen. Crust.* iv. 304. *Cons. Gén.* 443. *Tachypeza cimicoides*, *Meig. Dipt.* vii. 24. *Zett. Ins. Lapp.* 546, 1.

a. England. Presented by F. Walker, Esq.

b. France.

TACHYDROMIA fuscipennis, *Fall. Empid.* 14, 19. *Meig. Dipt.* iii. 71, 5. *Curt. Brit. Ent.* 477, 4. *Macq. Hist. Nat. Dipt.* i. 350, 4. *Tachypeza fuscipennis*, *Meigen, Zett. Ins. Lapp.* 546, 3.

a. England. Presented by F. Walker, Esq.

TACHYDROMIA nervosa, *Meig. Dipt.* iii. 72, 8. *Curt. Brit. Ent.* 477, 5. *Tachypeza fuscipennis*, *Meigen, Zett. Ins. Lapp.* 547, 5.

a. England. Presented by F. Walker, Esq.

b. France.

c. Alten, Finmark. Presented by F. Walker, Esq.

TACHYDROMIA portæcola, *Barnston's MSS.*, mas. *Nigra, antennis nigris, pedibus fulvis, femoribus piceis, alis cinereis.*

Resembles *T. nervosa*: body black, dull: eyes piceous: feelers and mouth black, the latter tawny towards the base: abdomen hairy at the tip: legs tawny; thighs slightly piceous: wings gray; wing-ribs and veins piceous; poisers dark tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

TACHYDROMIA similis, *Barnston's MSS.*, fem. *Nigra, antennis fulvis apice nigris, pedibus fulvis, femoribus anticis nigro vittatis, tibiis intermediis piceis, tibiis posticis apice femoribusque posticis nigris, alis fuscis.*

Body black, slightly shining: eyes and mouth piceous: feelers tawny, with black tips: legs tawny; tips of feet black; fore thighs

striped with black; middle shanks piceous; hind thighs and tips of hind shanks black; wings brown; wing-ribs and veins piceous; poisers tawny. Length of the body  $1\frac{3}{4}$  line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*TACHYDROMIA maculipennis*, Barnston's MSS., mas. *Nigra, antennis nigris, pedibus piceis, alis sublimpidis, fusco bimaculatis basi albis.*

Body black, shining: eyes piceous: feelers and mouth black: legs piceous: wings nearly colourless, white at the base, each with a large brown spot on the fore border at two-thirds of the length from the base; wing-ribs and veins piceous, the latter yellow towards the base. Length of the body  $1\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## Group II.

*TACHYDROMIA arenaria*. *Tachypeza arenaria*, Hal. Ent. Mag. i. 161. Walk. Ent. Mag. iii. 180. *Tachydromia brevipennis*? Zett. Ins. Lapp. 548, 8.

a. England. Presented by F. Walker, Esq.

*TACHYDROMIA graminum*, Fall. Empid. 15, 21. Meig. Dipt. iii. 72, 10. *Tachypeza graminum*, Hal. Ent. Mag. i. 161. Walk. Ent. Mag. iii. 180.

a. England. Presented by F. Walker, Esq.

## PLATYPALPUS, Macquart.

*PLATYPALPUS longicornis*. *Tachydromia longicornis*, Meig. Dipt. iii. 73, 12.

a. England. Presented by F. Walker, Esq.

*PLATYPALPUS nigratarsis*. *Tachydromia nigratarsis*, Fall. Empid. 34, 1, 2. Meig. Dipt. iii. 13.

a. Alten, Finmark. Presented by F. Walker, Esq.

*PLATYPALPUS pallipes*. *Tachydromia pallipes*, Fall. Empid. 8, 6. Meig. Dipt. iii. 74, 14. Zett. Ins. Lapp. 553, 16?

a. France.

**PLATYPALPUS niger**, *Macq. Hist. Nat. Dipt.* i. 352, 3. *Tachydromia nigra*, *Meig. Dipt.* iii. 75, 16.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS nigrinus**, *Tachydromia nigrina*, *Meig. Dipt.* iii. 76, 19.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS minutus**, *Macq. Hist. Nat. Dipt.* i. 353, 7. *Tachydromia minuta*, *Meig. Dipt.* iii. 76, 20.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS annulatus**, *Macq. Hist. Nat. Dipt.* i. 353, 10. *Tachydromia annulata*, *Fall. Empid.* 7, 2. *Meig. Dipt.* iii. 77, 22. *Zett. Ins. Lapp.* 552, 12.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS fulvipes**. *Tachydromia fulvipes*, *Megerle, Meig. Dipt.* iii. 78, 25, vi. 342. *T. fascipes*, *Meig. Dipt.* iii. 78, 23.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS castanipes**. *Tachydromia castanipes*, *Meig. Dipt.* iii. 79, 26.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS maculipes**. *Tachydromia maculipes*, *Megerle, Meig. Dipt.* iii. 79, 27.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS albocapillatus**. *Tachydromia albocapillata*, *Fall. Empid.* 9, 7. *Meig. Dipt.* iii. 79, 28.

a. France.

**PLATYPALPUS exiguus**. *Tachydromia exigua*, *Meig. Dipt.* iii. 81, 31.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS comptus**, *Walk. Ent. Mag.* iv. 228.

a. England. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

**PLATYPALPUS flavipes**, *Macq. Hist. Nat. Dipt.* i. 354, 12. *Empis flavipes*, *Fabr. Ent. Syst.* iv. 406, 19. *Tachydromia flavipes*, *Fabr. Syst. Antl.* 142, 1. *Meig. Dipt.* iii. 81, 32. *Fall. Empid.* 6, 1, var.  $\beta$ . *Zett. Ins. Lapp.* 549, 1. *T. vulgaris*, *Meig. Klass. Zweif.* i. 237, 3. *Sicus flavipes*, *Latr. Gen. Crust.* vi. 304. *Kirby and Sp. Ins. Ent.* iii. 639, 69.

- a. England. Presented by F. Walker, Esq.
- b. France.
- c. Hammerfest, Finmark. Presented by F. Walker, Esq.
- d. ——— ? From Mr. Children's collection.

PLATYPALPUS bicolor, *Macq. Hist. Nat. Dipt.* i. 355, 18. *Tachydromia bicolor*, *Fabr. Syst. Antl.* 143, 2. *Meig. Dipt.* iii. 82, 34. *Zett. Ins. Lapp.* 549, 2. *T. flavipes*, *Fall. Dipt. Suec. Empid.* 6, 1. *Var. antennis basi pallidis.*

- a. England. Presented by F. Walker, Esq.
- b. France.

PLATYPALPUS dichroa. *Tachydromia dichroa*, *Meig. Dipt.* iii. 83, 36.

- a. England. Presented by F. Walker, Esq.

PLATYPALPUS flavicornis, *Macq. Hist. Nat. Dipt.* i. 355, 16. *Tachydromia flavicornis*, *Meig. Dipt.* iii. 83, 37.

- a. England. Presented by F. Walker, Esq.

PLATYPALPUS cursitans, *Macq. Hist. Nat. Dipt.* i. 355, 19. *Musca cursitans*, *Fabr. Sp. Ins.* ii. 447, 602. *Ent. Syst.* iv. 339, 114. *Tachydromia cursitans*, *Fabr. Syst. Antl.* 143, 3. *Meig. Dipt.* iii. 83, 38.

- a. England. Presented by F. Walker, Esq.
- b. France.

PLATYPALPUS ventralis. *Tachydromia ventralis*, *Megerle, Meig. Dipt.* iii. 85, 40.

- a. England. Presented by F. Walker, Esq.

PLATYPALPUS dissimilis. *Tachydromia dissimilis*, *Fall. Empid.* 9, 9. *Meig. Dipt.* iii. 85, 41.

- a. England. Presented by F. Walker, Esq.
- b. France.

PLATYPALPUS candicans. *Tachydromia candicans*, *Fall. Empid.* 10, 11. *Meig. Dipt.* iii. 85, 42. *Zett. Ins. Lapp.* 550, 7.

- a. England. Presented by F. Walker, Esq.
- b. France.

PLATYPALPUS fasciatus. *Tachydromia fasciata*, *Meig. Dipt.* iii. 86, 43, *pl.* 23, *f.* 22.

- a. England. Presented by F. Walker, Esq.

PLATYPALPUS ciliaris, *Fall. Empid.* 33, 1, 2. *Meig. Dipt.* iii. 86, 44.

- a. England. Presented by F. Walker, Esq.



**PLATYPALPUS pectoralis**, *Macq. Hist. Nat. Dipt.* i. 356, 22. *Tachydromia pectoralis*, *Fall. Empid.* 9, 8. *Meig. Dipt.* iii. 87, 46.

a. France.

**PLATYPALPUS calceatus**, *Macq. Hist. Nat. Dipt.* i. 356, 20. *Tachydromia calceata*, *Meig. Dipt.* iii. 87, 45. *Zett. Ins. Lapp.* 550. 4. *T. flavipes*, var.  $\gamma$ . *Fall. Empid.* 6, 1.

a. England. Presented by F. Walker, Esq.

**PLATYPALPUS luteus**, *Macq. Hist. Nat. Dipt.* i. 356, 23. *Tachydromia lutea*, *Fall. Empid.* 10, 10. *Meig. Dipt.* iii. 89, 51. *Zett. Ins. Lapp.* 552, 11.

a. England. Presented by F. Walker, Esq.

b. France.

**PLATYPALPUS articulatus**, *Macq. Dipt. Nord.* 98, 10. *Hist. Nat. Dipt.* i. 354, 14. *Tachydromia articulata*, *Meig. Dipt.* vii. 98, 53, 66.

a. England. Presented by F. Walker, Esq.

b. France.

**PLATYPALPUS**, *Bacis*, n. s. *Ferrugineus, abdominis dorso piceo, antennis fulvis apice nigris, pedibus fulvis, posticis longis validis, alis limpidis.*

Body dark ferruginous: eyes dark red: lip tawny, as long as the head: feelers black; first and second joints dark tawny; third joint broad, nearly round; bristle very long, more than twice the length of all the preceding joints: abdomen piceous above: legs tawny, clothed with short black bristles; hind legs stout and long: wings colourless; wing-ribs ferruginous; veins piceous; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Jamaica. From Mr. Gosse's collection.

**PLATYPALPUS Alexippus**, n. s. *Cinereo-niger, antennis nigris, pedibus fulvis, femoribus intermediis validis, alis limpidis.*

Body black, covered with a gray bloom: feelers and mouth black: legs pale tawny; middle thighs thick: wings colourless; wing-ribs and veins piceous; poisers tawny. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## DRAPETIS, Meigen.

DRAPETIS exilis, *Megerle, Meig. Dipt.* iii. 91, 1, vi. 344. *Curt. Brit. Ent.* 397, 1. *Macq. Hist. Nat. Dipt.* i. 357, 1. *Zett. Ins. Lapp.* 554, 1. *Tachydromia assimilis, Fall. Dipt. Suec. Empid.* 8, 5, 34, 5.

a. England. Presented by F. Walker, Esq.

DRAPETIS nigra, *Meig. Dipt.* vi. 344, 2. *Curt. Brit. Ent.* 397, 2. *Macq. Hist. Nat. Dipt.* i. 358, 4.

a. England. Presented by F. Walker, Esq.

b. ———? From Mr. Children's collection.

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## Fam. XII. INFLATÆ.

## CYRTUS, Latreille.

CYRTUS magnus, n. s., mas, *Fulvus, thoracis disco fusco, abdominis fasciis ventreeque nigris, antennis nigris basi fulvis, pedibus fulvis, tibiis posticis femoribusque piceis, alis subfulvis.*

Body dark brown, thickly clothed with short tawny hairs: eyes black, very hairy: feelers black, tawny at the base: scutcheon and sides of the chest tawny: abdomen tawny, much longer and broader than the chest; a short black band on the fore border of each segment; underside black: legs tawny, clothed with tawny down; thighs and hind shanks for the most part pitchy: wings slightly tawny; wing-ribs, veins, and poisers tawny: scales colourless, fringed with short tawny hairs. Length of the body 6 lines; of the wings 11 lines.

a. Georgia. From Mr. Abbot's collection.

CYRTUS gibbus, *Meig. Dipt.* iii. 92, 1, pl. 24, f. 1, 6. *Macq. Hist. Nat. Dipt.* i. 366, 1. *Syrphus gibbus, Fabr. Ent. Syst.* iv. 311, 120. *Acrocera gibba, Fabr. Syst. Antl.* 332, 1. *Meig. Klass. Zweif.* i. 149, a. *Cyrtus acephalus, Latr. Gen. Crust.* iv. 317. *Cons. Gén.* 443, *Coq. Icon. Ins.* pl. 26, f. 6.

a. South of France.

## ACROCERA, Latreille.

ACROCERA sanguinea, *Latr. Gen. Crust.* iv. 318. *Schæff. Icon. pl.* 137, f. 2. *Meig. Dipt.* iii. 94, 1, pl. 24, f. 10. *Lam. Anim. sans Verteb.* iii. 414, b. *Macq. Hist. Nat. Dipt.* i. 369, 1. *Henops globulus*. Var. 2. *Fall. Stratiom.* 4, 3.

a. France.

ACROCERA globulus, *Latr. Gen. Crust.* iv. 318. *Cons. Gén.* 443. *Meig. Dipt.* iii. 95, 3. *Lam. Anim. sans Verteb.* iii. 414, 2. *Macq. Hist. Nat. Dipt.* i. 369, 2. *Syrphus globulus*, *Panz. Faun. Germ.* 86, 20. *Henops globulus*, *Fall. Stratiom.* 3, 3.

a. England.

b. France.

c. ———? From Mr. Children's collection.

ACROCERA albipes, *Meig. Dipt.* iii. 96, 4. *Henops globulus*. Var. *Fall. Stratiom.* 4, 3.

a. England.

b. France.

c. ———? From Mr. Children's collection.

ACROCERA nigrina, *Westwood, Trans. Ent. Soc. Lond.* v. 4, 97.

a. Georgia. From Mr. Abbot's collection.

ACROCERA bulla, *Westw. Trans. Ent. Soc. Lond.* v. 4, 98.

a. New York.

ACROCERA subfasciata, *Westw. Trans. Ent. Soc. Lond.* v. 4, 98.

a. New York.

ACROCERA unguiculata, *Westw. Trans. Ent. Soc. Lond.* v. 4, 98.

a. Georgia. From Mr. Abbot's collection.

ACROCERA fumipennis, *Westw. Trans. Ent. Soc. Lond.* v. 4, 98.

a. Georgia. From Mr. Abbot's collection.

## HENOPS, Illiger.

HENOPS gibbosus, *Fabr. Syst. Antl.* 333, 1. *Meig. Dipt.* iii. 99, 1 pl. 24, f. 15. *Curt. Brit. Ent.* 110, 1. *Musca gibbosa*, *Linn. Faun. Suec.* 1815. *Gmel. Ed. Syst. Nat.* v. 2874, 49. *Syrphus gibbosus*, *Fabr. Sp. Ins.* ii. 432, 55. *Ent. Syst.* iv. 311, 121. *Henops leucomelas*, *Meig. Klass. Zweif.* i. 151, 2, pl. 8, f. 30. *Fall. Stratiom.* 3, 2. *Acrocera gibbosa*, *Lam. Anim. sans Verteb.* iii. 414, 3. *Ogcodes gibbosus*, *Latr. Gen. Crust.* iv. 318. *Cons. Gén.* 443.

a. France.

*HENOPS marginatus*, *Meig. Dipt.* iii. 100, 2, *pl.* 24, *f.* 12. *Curt. Brit. Ent.* 110, 2. *Syrphus gibbosus*, *Panz. Faun. Germ.* 44, 21. *Schæff. Icon. pl.* 200, *f.* 1. *Henops gibbosus*, *Meig. Klass. Zweif.* i. 151, 1. *Ogcodes marginatus*, *Macq. Hist. Nat. Dipt.* i. 368, 2.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

#### PTERODONTIA, *G. R. Gray.*

*PTERODONTIA flavipes*, *G. R. Gray, Griff. Anim. Kingd. Ins. pl.* 128, *f.* 3, *pl.* 34, *p.* 779. *Westw. Trans. Ent. Soc. Lond.* v. 4, 96.

a. Georgia. From Mr. Abbot's collection.

*PTERODONTIA analis*, *Westw. Trans. Ent. Soc. Lond.* v. 4, 97.

a. Georgia. From Mr. Abbot's collection.

#### PSILODERA, *G. R. Gray.*

*PSILODERA capensis*, *G. R. Gray, Griff. Anim. Kingd. Ins. pl.* 128, *f.* 4. *Westw. Trans. Ent. Soc. Lond.* v. 4, 92.

a. Cape. Presented by the Entomological Club.

b. Cape.

#### LASIA, *Wiedemann.*

*LASIA flavitarsis*, *Erichson, Westw. Trans. Ent. Soc. Lond.* v. 4, 92. *Panops flavitarsis*, *Wied. Auss. Zweif.* ii. 18, 1, *pl.* 9, *f.* 2, a—c. *Lasia amethystina*, *Perty. Delect. Anim. Artic.* 181, *pl.* 36, *f.* 7. *Beris? violacea*, *G. R. Gray, Griff. Anim. Kingd. Ins. pl.* 114, *f.* 2.

a. Brazil. From Mrs. Noel's collection.

### FAM. XIII. STRATIOMYDÆ.

#### PACHYGASTER, *Meigen.*

*PACHYGASTER ater*, *Meig. Dipt.* iii. 102, 1. *Macq. Hist. Nat. Dipt.* i. 264, 1. *Vappo ater*, *Fabr. Syst. Antl.* 254, 1. *Latr. Gen. Crust.* iv. 278. *Cons. Gén.* 442. *Nemotelus ater*, *Panz. Faun. Germ.* 54, 5. *Sargus pachygaster*, *Fall. Stratiom.* 13, 1.

a. England.

b. France.

- PACHYGASTER Leachi, *Stephens, Curt. Brit. Ent.* 42. *P. pallipennis*, *Macq. Hist. Nat. Dipt.* i. 265, 2, pl. 6, f. 14.  
 a. England. Presented by J. C. Dale, Esq.

### HERMETIA, Latreille.

- HERMETIA illucens, *Latr. Dict. d'Hist. Nat.* xxiv. 192, 54. *Hist. Crust. et Ins.* xiv. 338. *Gen. Crust. et Ins.* iv. 271. *Fabr. Syst. Antl.* 62, 1. *Wied. Auss. Zweif.* ii. 22, 1, pl. 7, f. 3. *Macq. Hist. Nat.* i. 228, 1. *Dipt. Exot.* i. 177, 1, pl. 21, f. 2.  
*Musca illucens*, *Linn. Syst. Nat.* ii. 979, 2. *M. leucopa*, *Linn. Syst. Nat.* ii. 983, 23. *Nemotelus illucens*, *Deg. Ins.* vi. 205, 3, pl. 29, f. 8. *Bibio illucens*, *Fabr. Mant.* ii. 328, 2. *Syrphus leucopus*, *Fabr. Mant. Ins.* ii. 338, 41. *Mydas illucens*, *Fabr. Ent. Syst.* iv. 253, 2. *Xylophagus illucens*, *Lam. Hist. Anim. sans Verteb.* iii. 355, 2.  
 a. Jamaica. From Mr. Gosse's collection.  
 b. Brazil. Presented by J. P. George Smith, Esq.  
 c. Brazil. Presented by Sir C. Stewart.  
 d. Para. Presented by Reginald Graham, Esq.  
 e. South America. From Mr. Warwick's collection.  
 f. Brazil. From Mr. Mornay's collection.  
 g. Brazil. Presented by O. Reilly, Esq.  
 h. Jamaica.  
 i. ———?

- HERMETIA pulchra, *Wied. Auss. Zweif.* i. 24, 3.  
 a. Brazil. From Mr. Mornay's collection.

### EUDMETA, Wiedemann.

- EUDMETA marginata, *Wied. Auss. Zweif.* i. 43, 1, pl. 9, f. 4. *Macq. Hist. Nat. Dipt.* i. 259, 1, pl. 6, f. 10. *Dipt. Exot.* i. 194. *Hermetia marginata*, *Fabr. Syst. Antl.* 63, 3.  
 a. Java. From Mr. Argent's collection.

### SARGUS, Fabricius.

#### Group I. CHRYSOCHLORA, Latreille.

- SARGUS amethystinus, *Fabr. Syst. Antl.* 258, 13. *Wied. Auss. Zweif.* ii. 27, 1. *Chrysochlora amethystina*, *Latr. Regn. Anim.* v. 486. *Macq. Hist. Nat. Dipt.* i. 258, 1. *Dipt. Exot.* i. 198.  
 a. Isle of France.

**SARGUS** Andreas, n. s., fem. *Cyaneo-viridis, scutelli apice fulvo, abdomine cyaneo-nigro pilis canis bifasciato basi fulvo, antennis nigris, pedibus flavis, femoribus cyaneo-nigris, alis cinereis ad costam fusco maculatis.*

Head blue, broader than the chest, tawny in front: mouth yellow: feelers black: eyes dark red: chest and breast bluish green, clothed with short pale hairs; tip of the scutcheon tawny: abdomen bluish black; hind borders of the third and of the fourth segments adorned with bands of hoary hairs; second segment tawny: legs pale yellow; hips and thighs bluish black; tips of the latter tawny: wings gray, a small brown spot on the middle of each fore border; wing-ribs ferruginous; veins pitchy; poisers yellow. Length of the body 5 lines; of the wings 10 lines.

a. ———?

**SARGUS** annulipès, n. s., fem. *Purpureo-cyaneus, clypeo fulvo, antennis pedibusque nigris, femoribus apice tarsisque basi fulvis, tibiis basi flavis, alis fuscis ad costam nigro-fusco fasciatis.*

Body dark blue: head a little broader than the chest, clothed with short black hairs; clypeus tawny: eyes bronze; facets very small: mouth black: feelers black; first and second joints short, clothed with short black hairs; third joint very long, tapering from the base to the tip, nearly thrice the length of the first and second; bristle much shorter than the third joint: chest and abdomen very finely punctured, covered with tawny down: abdomen tinged with purple, nearly elliptical, a little longer and broader than the chest: legs black, clothed with hoary down; tips of thighs tawny; shanks yellow towards the base; feet tawny at the base: wings brown, each with a dark brown band a little beyond the middle of the fore border; wing-ribs and veins piceous; poisers yellow. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

a. ———?

**SARGUS** vespertilio, *Fabr. Syst. Antl.* 259, 14. *Wied. Auss. Zweif.* ii. 29, 4. *Chysochlora vespertilio, Macq. Hist. Nat. Dipt.* i. 258, 2.

a. Venezuela. From Mr. Dyson's collection.

**SARGUS** Echemon, n. s., fem. *Flavus, capite fulvo, thoracis vittis duabus fuscis, abdomine fulvo vittis piceis, antennis fulvis, pedibus flavis, femoribus fulvis, alis fulvis apice fasciaque fuscis margine postico cinereo.*

Head tawny, a little broader than the chest: eyes pitchy, slightly bronzed; facets on the fore part of the crown rather larger

than those elsewhere: feelers tawny; bristle black; chest brown, clothed with tawny down, adorned with two yellow stripes, these are connected by two oblique bands with the sides, which like the breast are yellow: scutcheon yellow, fore border brown: abdomen bright tawny, elliptical, much longer and broader than the chest, paler at the base; a pitchy mark on the disk and on each side of every segment: legs yellow; hips and thighs tawny; tips of claws black: wings tawny, gray along the hind borders, brown at the tips, and adorned with a brown band across the middle; wing-ribs and veins tawny, the latter pitchy along the hind borders and at the tips; poisers tawny, with green knobs. Length of the body 6 lines; of the wings 15 lines.

a. Para. Presented by J. P. George Smith, Esq.

*SARGUS Haterius*, n. s., fem. *Flavus, thoracis vittis tribus fuscis, abdomine fusco fasciato, antennis fulvis, pedibus flavis, alis cinereis ad costam fulvis.*

Head yellow, with a brown stripe between the eyelets and the feelers, clothed with black hairs on the crown: eyes black; facets very small: feelers tawny; bristle black: chest brown, clothed with tawny down, adorned with two yellow stripes; sides and breast yellow; scutcheon yellow; fore border brown; abdomen yellow, clothed with tawny down, broader and a little longer than the chest; a broad irregular brown band on the fore border of each segment: legs yellow; tips of claws black: wings gray, tawny along the fore borders: wing-ribs and veins ferruginous; poisers yellow. Length of the body 7 lines; of the wings 15 lines.

a. Venezuela. From Mr. Dyson's collection.

## Group II.

*SARGUS gemmifer*, n. s. *Cyaneo-viridis, abdomine cupreo, ventre purpureo, antennis pedibusque fulvis, his piceo vittatis, alis nigrofuscis.*

Head piceous, shining, pale tawny beneath: eyes piceous; feelers tawny; bristle black: chest bright bluish green; breast less bright, varied with purple: abdomen brilliant copper colour; underside purple: legs tawny, striped with pitch colour, clothed with tawny down: wings blackish brown, paler along the hind borders; wing-ribs and veins black; poisers tawny. Length of the body 9 lines; of the wings 16 lines.

a. Silhet. From Mr. Sowerby's collection.

**SARGUS tenebrifer**, n. s., fem. *Niger, clypeo flavo, scutelli margine postico fulvo, abdominis segmentorum marginibus posticis albo-pilosis, segmento 2<sup>o</sup> flavo maculis tribus nigris, antennis pedibusque nigris, tibiis anticis basi flavis, alis nigro-fuscis.*

Body black: head clothed with black hairs: clypeus yellow: eyes piceous; its facets rather larger in front than elsewhere: feelers black: chest finely punctured, clothed with tawny down; hind border of scutcheon tawny: abdomen oval, very convex, broader and longer than the chest, rather narrow towards the base; sides of the hind borders of the segments clothed with white hairs; second segment yellow, having above a large black spot in the middle, and a short black stripe on each side: legs black, clothed with black down; fore shanks yellow towards the base; wings blackish brown, with a slight tawny tinge along the fore borders; wing-ribs and veins black; poisers tawny. Length of the body 5—6 lines; of the wings 10—12 lines.

a. China. Presented by G. T. Lay, Esq.

b. ———?

**SARGUS metallinus**, *Fabr. Syst. Antl.* 258, 11. *Wied. Auss. Zweif.* ii. 36, 16.

a. Nepaul. From the Hardwicke bequest.

**SARGUS stamineus**, *Wied. Auss. Zweif.* i. 39, 21. *Scæva staminea, Fabr. Syst. Antl.* 253, 19.

a. Para. Presented by Reginald Graham, Esq.

**SARGUS elongatus**. *Musca elongata, Fabr. Ent. Syst.* iv. 338, 109.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

b. West Africa. Presented by Sir E. Belcher.

c. ———?

**SARGUS testaceus**, *Fabr. Syst. Antl.* 257, 6. *Wied. Auss. Zweif.* ii. 15. *Macq. Dipt. Exot.* i. 203, 5.

a. Brazil.

b. ———?

**SARGUS Alchidas**, n. s., mas. *Viridis, abdomine cupreo pilis fulvis fasciato, antennis pedibusque fulvis, alis subfulvis.*

Head and chest bright green, clothed with short black hairs: head a little broader than the chest: eyes bronze; facets very small: mouth tawny: feelers pale tawny; bristle black: abdomen bright copper colour, varied with green, increasing in breadth from the base to the tip, narrower than the chest, and nearly twice its



length, clothed with tawny hairs, which are most thick on the hind borders of the segments: legs tawny: wings tinged with tawny; wing-ribs and veins tawny, some of the latter pitch-colour; poisers tawny. Length of the body 5 lines; of the wings 9 lines.

a. Jamaica. From Mr. Gosse's collection.

**SARGUS** Bagosas, n. s., mas. *Purpureus viridi varius, scutelli margine postico fulvo, abdomine pilis fulvis fasciato, antennis pedibusque fulvis, alis limpidis.*

Head and chest purple, varied with green: head a little broader than the chest; front tawny: mouth pale yellow: eyes bronze: feelers tawny; bristle black: chest clothed with tawny hairs; hind border of the scutcheon tawny: abdomen green, increasing in breadth from the base to the tip, as broad as the chest, and rather less than twice its length, clothed with tawny hairs, which are most thick on the hind borders of the segments: legs tawny: wings colourless; wing-ribs and veins piceous; poisers tawny. Length of the body 4 lines; of the wings 8 lines.

a. Jamaica. From Mr. Gosse's collection.

**SARGUS** cuprarius, *Fabr. Ent. Syst. Suppl.* 566, 1. *Syst. Anth.* 256, 3. *Latr. Gen. Crust.* iv. 278. *Cons. Gén.* 442. *Fall. Stratiom.* 15, 2. *Meig. Dipt.* iii. 106, 1. *Macq. Hist. Nat. Dipt.* i. 260, 1. *Zett. Ins. Lapp.* 576, 1. *Musca cupraria*, *Linn. Syst. Nat.* ii. 994. *Faun. Suec.* 1853. *Gmel. Ed. Syst. Nat.* v. 2849, 92. *Fabr. Sp. Ins.* ii. 446, 52. *Ent. Syst.* iv. 335, 96. *Geoff. Ins.* ii. 525, 61. *Schrank. Ins. Austr.* 994. *Stew. El.* 261. *Turt.* iii. 610. *Nemotelus cuprarius*, *Deg. Ins.* vi. 81, 16, pl. 12, f. 4. *Rhagio politus?* *Schrank. Faun. Boic.* iii. 2394. *Musca indicus?* *Harr. Ex.* 47, pl. 11, f. 77.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**SARGUS** infuscatus, *Hoffmansegg, Meig. Dipt.* iii. 107, 3. *Macq. Hist. Nat. Dipt.* i. 261, 2. *Zett. Ins. Lapp.* 577, 2. *S. auratus*, *Meig. Klass. Zweif.* i. 143, 2.

a. England.

b. France.

**SARGUS** flavipes, *Meig. Dipt.* iii. 108, 5, pl. 25, f. 14. *Macq. Hist. Nat. Dipt.* i. 261, 4. *Zett. Ins. Lapp.* 577, 3.

a. England.

b. France.

**SARGUS Reaumuri**, *Fabr. Syst. Antl.* 256, 2. (*Reaum. Ins.* iv. pl. 22, f. 5—8). *Meig. Dipt.* iii. 109, 6. *Curt. Brit. Ent.* 305. *Macq. Hist. Nat. Dipt.* i. 262, 6.

a. England.

b. France.

### Group III. CHRYSOMYIA, *Macquart*.

**SARGUS formosus**, *Meig. Dipt.* iii. 110, 8. *Musca aurata*, *Fabr. Ent. Syst.* iv. 335, 96. *Gmel. Ed. Syst. Nat.* v. 2850, 218. *Don. Brit. Ins.* iv. 91, pl. 142, f. 1. *Stew. El.* ii. 261. *Turt.* iii. 610. *M. cicur*, *Harr. Ex.* 47, pl. 11, f. 88. *M. formosa*, *Schrank. Ins. Austr.* 899. *Rhagio formosus*, *Schrank. Faun. Boic.* iii. 2395. *Sargus auratus*, *Fabr. Ent. Syst. Suppl.* 566, 2. *Syst. Antl.* 257, 4. *S. xanthopterus*, *Fabr. Syst. Antl.* 255, 1. *Latr. Gen. Crust.* iv. 278. *Meig. Klass. Zweif.* i. 144, 5, pl. 8, f. 16—18. *Fall. Stratiom.* 14, 3. *Nemotelus flavogeniculatus*, *Deg. Ins.* vi. 81, 17. *Chrysomyia formosa*, *Macq. Hist. Nat. Dipt.* i. 263, 1.

a. England.

b. France.

**SARGUS sapphirinus**, n. s., fem. *Purpureo-cyaneus, clypeo albo, antennis nigris, tibiis tarsisque piceis, tibiis subtus flavis, alis limpidis.*

Body bright blue, tinged with purple: head as broad as the chest; clypeus white: eyes dark bronze: mouth and feelers black: chest and abdomen finely punctured, thinly clothed with short hoary hairs: abdomen nearly elliptical, a little broader and longer than the chest: legs blue, clothed with short hoary hairs; shanks and feet piceous; shanks pale yellow beneath; wings colourless; wing-ribs and veins dark tawny; poisers pale tawny. Length of the body 4 lines; of the wings 7 lines.

a. East Indies. From Archdeacon Clerk's collection.

**SARGUS viridis**, *Say, Journ. Acad. Phil.* iii. 87. *Wied. Auss. Zweif.* i. 39, 22.

a. Nova Scotia. From Mr. Children's collection.

**SARGUS politus**, *Fabr. Ent. Syst. Suppl.* 556, 4. *Syst. Antl.* 257, 7. *Meig. Klass. Zweif.* i. 145, a. *Dipt.* iii. 111, 9. *Fall. Stratiom.* 14, 4. *Zett. Ins. Lapp.* 577, 4. *Musca polita*, *Linn. Syst. Nat.* ii. 894. *Faun. Suec.* 1854. *Gmel. Ed. Syst. Nat.* 2850, 93. *Fabr. Sp. Ins.* ii. 446, 53. *Ent. Syst.* iv. 335, 99. *Stew. El.* ii. 261. *Turt.* iii. 611. *M. vitreus*, *Harr. Ex.* 48,

*pl.* 11, *f.* 9, 10. *Sargus cyaneus*, *Fabr. Syst. Antl.* 258, 10. *S. splendens*, *Meig. Klass. Zweif.* i. 144, 4. *Nemotelus auratus*, *Deg. Ins.* vi. 81, 18. *Chrysomyia polita*, *Macq. Hist. Nat. Dipt.* i. 263, 3.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*SARGUS flavicornis*, *Meig. Dipt.* iii. 112, 10. *Musca parvulus*? *Harr. Ex.* 48, *pl.* 11, *f.* 11. *Chrysomyia flavicornis*, *Macq. Hist. Nat. Dipt.* i. 264, 4.

a. England.

### NEMOTELUS, *Geoffroy*.

*NEMOTELUS uliginosus*, *Fabr. Ent. Syst.* iv. 269, 1. *Syst. Antl.* 87, 1. *Fall. Stratiom.* 5, 1. *Meig. Dipt.* iii. 114, 1, *pl.* 25, *f.* 19. *Curt. Brit. Ent.* 729, 1. *Macq. Hist. Nat. Dipt.* i. 265, 2, *pl.* 6, *f.* 15. *Musca uliginosa*, *Linn. Syst. Nat.* ii. 982. *Gmel. Ed. Syst. Nat.* v. 2836, 22. *Turt.* iii. 655. *Don. Brit. Ins.* xv. 31, *pl.* 519. *Nemotelus*, &c., *Geoff. Ins.* ii. 543, 2. *Stratiomys mutica*, *Fabr. Sp. Ins.* ii. 419, 14.

a. England.

b. France.

*NEMOTELUS pantherinus*, *Meig. Dipt.* iii. 115, 2, *pl.* 25, *f.* 20. *Curt. Brit. Ent.* 729, 2. *Macq. Hist. Nat. Dipt.* i. 265, 1. *Musca pantherina*, *Linn. Syst. Nat.* ii. 980. *Faun. Suec.* 1783. *Gmel. Ed. Syst. Nat.* v. 2830, 8. *Schell. Gen. Mouch.* *pl.* 25, *f.* 1. *M. marginata*, *Turt.* iii. 655. *Stratiomys marginata*, *Fabr. Sp. Ins.* ii. 419, 13. *S. mutica*, *Schrank. Faun. Boic.* iii. 2389. *Nemotelus marginatus*, *Fabr. Ent. Syst.* iv. 270, 3. *Syst. Antl.* 883. *Latr. Gen. Crust.* iv. 276. *Cons. Gén.* 442. *Panz. Faun. Germ.* xlv. 22. *Nemotelus*, &c., *Geoff. Ins.* 543, 1, *pl.* 18, *f.* 4. *Musca marginella*, *Gmel. Ed. Syst. Nat.* v. 2836, 163. *Stew. El.* ii. 256. *Nemotelus margiuellus*, *Fall. Stratiom.* 5, 2. *N. uliginosus*, *Latr. Gen. Crust.* iv. 276. *Cons. Gén.* 442. *Panz. Faun. Ins. Germ.* xlv. 21. *Meig. Klass. Zweif.* i. 139, 1, *pl.* 7, 8, *f.* 8.

a. England.

*NEMOTELUS nigrinus*, *Fall. Stratiom.* 6, 3. *Meig. Dipt.* iii. 117, 5. *Curt. Brit. Ent.* 729. *Macq. Dipt. Nord.* 116, 3. *Hist. Nat. Dipt.* i. 266, 3. *N. nigrinus*, *Panz. Faun. Germ.* 107, 17.

a. England.

**NEMOTELUS carneus**, Barnston's MSS., fem. *Niger, antennis nigris, pedibus fulvis, femoribus nigris, tibiis nigro vittatis, alis albidis.*

Body black, shining: head a little narrower than the chest: eyes piceous: mouth and feelers black: scutcheon unarmed: abdomen much broader, but not longer than the chest: legs tawny; hips and thighs black; tips of thighs tawny; shanks striped with black: wings whitish; wing-ribs tawny; veins and poisers pale yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### CLITELLARIA, Meigen.

#### Group I. Scutcheon armed with spines.

**CLITELLARIA** Ephippium, Meig. Dipt. iii. 122, 4. Stratiomys, Ephippium, Fabr. Sp. Ins. ii. 417, 2. Ent. Syst. iv. 264, 6. Syst. Antl. 79, 4. Schrank. Faun. Boic. iii. 2379. Panz. Faun. Germ. viii. 23. Musca, &c., Geoff. Ins. ii. 480, 3. Schell. Gen. Mouch. pl. 24, f. 1, 2. Schæff. Icon. pl. 47, f. 7. M. Ephippium, Gmel. Ed. Syst. Nat. v. 2834, 151. Herbst Gem. Nat. viii. pl. 339, f. 3. M. Inda, Schrank. Ins. Austr. 891. Don. Brit. Ins. xvi. 37, pl. 599. Mill. Brit. Ent. pl. 1, f. 6. Ephippium thoracicum, Latr. Gen. Crust. iv. 276. Cons. Gén. 442. Encyl. pl. 387, f. 27, 30. Macq. Hist. Nat. Dipt. i. 252, 1, pl. 6, f. 7.

a. England.

b. France.

c. Germany. From Mr. Walker's collection.

**CLITELLARIA albicaput**, n. s., mas. et fem. *Cyaneus, capite albo, scutello bidentato, antennis pedibusque nigris, alis purpureo-nigris.*

Body dark blue, with a purple tint: head ivory-white, smooth, shining, narrower than the chest, piceous about the eyelets; front clothed with white hairs: eyes convex, dark bronze, with one broad green band and two narrow bluish green bands: lip black, clothed with hoary hairs: feelers black; first and second joints clothed with short black hairs; second joint not half the length of the first; third joint linear, very long, more than twice the length of the first and the second: chest clothed with short black hairs; scutcheon armed with two stout teeth: abdomen a little longer than wide, very much broader, but not longer than the chest; intermediate segments of

moderate and nearly equal length: legs black or piceous, tinged with purple, clothed with short black hairs; feet sometimes tawny towards the base; foot-cushions tawny: wings black, with a purple tinge, slightly paler at the tips and along the hind borders; wing-ribs and veins black; poisers tawny. Length of the body 6—7 lines; of the wings 12—14 lines.

a. Para. Presented by Reginald Graham, Esq.

b. ——— ?

*CLITELLARIA tenebrica*, n. s., mas. *Nigra, thorace pilis canis bivittato, scutello bidentato, antennis pedibusque nigris, alis nigro-fuscis.*

Body black: head narrower than the chest, thickly clothed with short white hairs: mouth piceous: eyes piceous, thickly covered with hoary down: feelers black, covered with hoary down: chest bluish black, punctured, armed with a black tooth on each side, adorned with two stripes of hoary hairs; scutcheon armed with two long slightly curved teeth: breast clothed with hoary hairs: abdomen elliptical, flat, a little broader, but hardly longer than the chest, clothed with hoary hairs: legs black, clothed with short hoary hairs: wings blackish brown; borders paler towards the base; wing-ribs and veins black; poisers tawny, with pale yellow knobs. Length of the body 5—6 lines; of the wings 10—12 lines.

a. Java. From Mr. Argent's collection.

*CLITELLARIA heminopla*, Wied. Zool. Mag. iii. 30, 45. *Auss. Zweif.* ii. 48, 3.

a. Madras. Presented by Walter Elliott, Esq.

*CLITELLARIA Anchialus*, n. s., fem. *Cyanea, thorace lanugine alba trivittato, scutelli dentibus duabus nigris apice fulvis, antennis nigris pedibus cyaneo-nigris, genibus ferrugineis, tarsis piceis, alis limpidis.*

Body dark blue: head much narrower than the chest, clothed with white down: eyes red; facets rather small: mouth and feelers black, the latter much longer than the head: chest adorned with three stripes of white down; scutcheon armed with two black teeth, whose tips are tawny: breast partly clothed with white hairs: abdomen much broader, but not longer than the chest, clothed with short white hairs above, tinged with purple beneath; legs bluish black; knees ferruginous; feet piceous, tawny towards the base: wings colourless; wing-ribs ferruginous; veins black; poisers pale tawny. Length of the body 3½ lines; of the wings 7 lines.

a. Jamaica. From Mr. Gosse's collection.

**CLITELLARIA** Halala, n. s., fem. *Nigra, capite fulvo, abdominis lateribus fulvo pilosis, antennis piceis basi subtusque fulvis, pedibus rufis, tarsis anticis tibiisque posticis piceis, alis limpidis nigro-bifasciatis.*

Body black: head tawny, narrower than the chest, piceous about the eyelets: eyes bright red, covered with down: feelers tawny, piceous above from the third joint to the tips, which are also piceous beneath: chest clothed with short tawny hairs; scutcheon very prominent, armed with four short tawny teeth: abdomen very convex, nearly round, thickly and coarsely punctured, much shorter and broader than the chest, clothed on each side with short pale tawny hairs: legs red; fore feet and hind shanks piceous: wings colourless, each adorned with two short irregular black bands, extending from the fore borders to the disks; wing-ribs and poisers tawny; veins part piceous, part yellow. Length of the body 3 lines; of the wings  $5\frac{1}{2}$  lines.

a. Honduras. From Mr. Dyson's collection.

**CLITELLARIA** Amenides, n. s., mas. *Nigra, capite fulvo, scutelli dentibus duabus fulvis, antennis piceis basi fulvis, pedibus piceis, femoribus apice tarsisque fulvis, alis limpidis, costæ dimidio apicali fusco.*

Head tawny, much narrower than the chest: eyes piceous: mouth black: feelers piceous, tawny at the base: chest and breast black, thickly clothed with tawny down; scutcheon prominent, armed with two short tawny teeth: abdomen gibbous, black, a little shorter and much broader than the chest, clothed with short tawny hairs: legs pitch-colour; feet and tips of thighs tawny: wings colourless; wing-ribs, veins, and poisers tawny; wings brown along the fore borders from the middle to the tips. Length of the body 3 lines; of the wings 6 lines.

a. ———?

Group II. *Scutcheon unarmed.* Cyclogaster? Macquart.

**CLITELLARIA** Coprates, n. s., mas. *Nigra, thoracis vittis tribus fuscis, abdomine purpureo-cyaneo, lateribus albo-pubescentibus, antennis nigris, pedibus cyaneo-nigris, tarsis anterioribus fulvis, alis nigro-fuscis.*

Body black: head full as broad as the chest, clothed behind and beneath with short hoary hairs: eyes reddish bronze; facets o

moderate and equal size: mouth and feelers black, the latter linear, and full twice the length of the head: chest deep black, adorned with three broad stripes of brown down; scutcheon unarmed: abdomen purplish blue, adorned on each side towards the tip with patches of white down, rather broader than long, much wider and a little shorter than the chest: legs bluish black, clothed with tawny down; feet tawny, black towards the tips; hind feet black: wings blackish brown, darkest along the fore borders; wing-ribs and veins black; poisers piceous. Length of the body 4 lines; of the wings 8 lines.

a. ———? From Mr. Children's collection.

*CLITELLARIA cuprea*, n. s. *Cuprea, antennis pedibusque nigris, alis nigro-fuscis.*

Body bright copper-colour, shining, thickly clothed with short hoary hairs: head much narrower than the chest; eyes dark red, clothed with black down: mouth black, clothed with short black hairs: feelers black, short; first and second joints cup-shaped, of nearly equal length, beset with short black hairs; third joint conical till near the tip, where it is narrow and slightly curved, more than twice the length of the two preceding joints: abdomen convex, much broader, but not longer than the chest, its breadth slightly exceeding its length: legs black, clothed with hoary down: wings dark brown, especially along the fore borders; wing-ribs and veins black; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. West Australia. From Mr. Clifton's collection.

*CLITELLARIA rufa*, n. s. *Rufa, antennis pedibusque rufis, illis apice nigris, alis limpidis.*

Body red, shining, finely punctured, rather flat, almost hairless: head a little narrower than the chest: eyes and eyelets piceous: feelers black, nearly as long as the head, ending in a spine; first and second joints red, long, nearly equal in length: third and following joints short: abdomen flat, rather wider than long, shorter and very much broader than the chest: legs red: wings colourless; wing-ribs, veins, and poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. ———? From Mr. Children's collection.

*CLITELLARIA cornasa*, n. s., mas. *Nigra, antennis piceis basi fulvis, pedibus fulvis, alis cinereis.*

Body black, head as broad as the chest: eyes reddish bronze; facets large: feelers piceous; first joint tawny; second joint slightly

club-shaped, tawny at the base: mouth black: chest increasing in breadth from the fore border to the hind border: abdomen nearly elliptical, a little broader, but not longer than the chest: legs tawny: wings gray, darker along the fore borders; wing-ribs, veins, and poisers piceous. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

#### CYPHOMYIA, Wiedemann.

CYPHOMYIA auriflamma, *Hoffmansegg, Wied. Anal. Ent.* 13, 4. *Zool. Mag.* iii. 54, 51. *Wied. Auss. Zweif.* ii. 54, 1. *Macq. Hist. Nat. Dipt.* i. 242, 2.

a. Brazil.

CYPHOMYIA cyanea, *Wied. Auss. Zweif.* i. 57, 7. *Macq. Hist. Nat. Dipt.* i. 242, 1, pl. 6, f. 3. *Stratiomys cyanea, Fabr. Ent. Syst.* iv. 265, 11. *Syst. Antl.* 80, 11. *Coq. Ill.* 100, pl. 23, f. 4.

a. Columbia. Presented by Capt. Friend.

#### PTILOCERA, Wiedemann.

PTILOCERA quadridentata, *Wied. Auss. Zweif.* ii. 59, 1, pl. 8, f. 4, a—d. *Jenson, Bull. Soc. Imp. Nat. Mosc.* iv. 321. *Macq. Hist. Nat. Dipt.* i. 240, 1, pl. 6, f. 1.

a. Java.

PTILOCERA smaragdina, n. s. *Viridis cyaneo purpureoque varia, antennis nigris ramosis, pedibus nigris, alis nigro-fuscis.*

Head black, narrower than the chest: eyes pale bronze; facets very small: mouth black: feelers black, longer than the head, adorned on one side with four feathered branches, and with three on the other, ending in a spine, which is also feathered and has a knob at the tip: chest and abdomen thickly punctured: chest spangled with blue, purple and green; scutcheon armed with four black teeth: abdomen a little wider than long, broader and shorter than the chest, of the same colour, but less brilliant; sides and hind part thinly clothed with hoary hairs: breast and underside of abdomen more dull, clothed with hoary down: legs black: wings blackish brown, paler along the hind borders; a dull tawny band across each fore border; wing-ribs, veins, and poisers black. Length of the body 4 lines; of the wings 7 lines.

a. Philippine Islands. From Mr. Cuming's collection.



## ACROCHÆTA, Wiedemann.

ACROCHÆTA elegans, Perty, *Del. Anim. Artic.* 184, pl. 36, f. 15.

a. Brazil. Presented by J. P. George Smith, Esq.

b. ———?

ACROCHÆTA Aleus, n. s., mas. *Niger, thoracis maculis duabus flavis, scutelli dentibus duabus ferrugineis, pectore cinereo, abdominis segmentorum marginibus posticis flavis, ventre flavo albo pubescente, antennis nigris basi fulvis, pedibus fulvis femoribus nigris, alis subfulvis, ad costam fulvis fusco cinereoque variis.*

Head as broad as the chest, clothed on the crown, on the front and beneath with short white silvery hairs: eyes reddish bronze, meeting above; facets very small: hypostoma dark tawny, shining: lip black, shining: feelers black, a little more than twice the length of the head; first joint long, tawny, black at the tip; second joint very short; third joint broader, and slightly increasing in breadth from the base to the tip; fourth joint very small: chest black, clothed with short pale brown hairs, adorned with a pale yellow spot on each side behind; scutcheon armed with two ferruginous teeth: breast gray, thickly clothed with short white silvery hairs: abdomen velvet-black, broader, but hardly longer than the chest; hind borders of the segments yellow, especially on each side; underside yellow, thickly covered with white silvery down; first and second segments short; third, fourth, and fifth segments large: legs tawny, covered with white down; hips and thighs black: wings with a slight tawny tinge, dark tawny mixed with brownish gray for some breadth along the fore borders; wing-ribs ferruginous; veins piceous, ferruginous towards the base; poisers ferruginous. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

a. Brazil. Presented by J. P. George Smith, Esq.

## ALLIOCERA, Saunders.

ALLIOCERA Græca, Saunders, *Trans. Ent. Soc. Lond.* iv. 62, pl. 4, f. 1.

a. Albania. Presented by W. W. Saunders, Esq.

## OXYCERA, Meigen.

OXYCERA Hypoleon, *Staeger, Ent. Zeit. Stettin.* v. 409, 1. *Musca hypoleon, Linn. Syst. Nat. Ed. xii.* 1, 2, 980, 7. *Geoff. Ins.* ii. 418, 6. *Don. Brit. Ins.* v. 6, pl. 146, f. 3 *Stew. El.* ii.

256. *Turt.* iii. 631. *M. tardigradus*, *Harr. Ex.* 46, pl. 11, f. 6. *Stratiomys hypoleon*, *Schrank. Faun. Boic.* 3, 96, 2385? *Fabr. Syst. Antl.* 85, 29? *Oxycera pulchella*, *Meig. Dipt.* iii. 125, 2, pl. 25, f. 20. *Macq. Dipt. Nord.* 118, 2. *Hist. Nat. Dipt.* i. 249, 1. *O. hypoleon*, *Meig. Klass. Zweif.* i. 137, 1, pl. 8, f. 3.

a. England.

b. ———? From Mr. Children's collection.

*OXYCERA trilineata*, *Latr. Gen. Crust.* iv. 278. *Meig. Dipt.* iii. 126, 3. *Macq. Hist. Nat. Dipt.* i. 250, 3. *Musca pantherina*, *Linn. Faun. Suec.* 1783. *M. trilineata*, *Linn. Syst. Nat.* ii. 980. *Gmel. Ed. Syst. Nat.* v. 2835, 6. *Don. Brit. Ins.* v. 25, pl. 151, f. 5. *Stew. El.* ii. 256. *Turt.* iii. 630. *M. &c.*, *Geoff. Ins.* ii. 482, 7. *Stratiomys trilineata*, *Fabr. Sp. Ins.* ii. 418, 9. *Ent. Syst.* iv. 267, 19. *Syst. Antl.* 85, 28. *Schrank. Faun. Boic.* iii. 2386. *Perty. Faun. Germ.* i. 13. *Fall. Stratiom.* ii. 8.

a. England.

b. France.

c. France. Presented by F. Walker, Esq.

*OXYCERA muscaria*, *Meig. Dipt.* iii. 126, 4. *Macq. Hist. Nat. Dipt.* i. 251, 6. *Stratiomys muscaria*, *Fabr. Ent. Syst.* iv. 268, 21. *Syst. Antl.* 86, 31. *Panz. Faun. Germ.* cviii. 15, 16.

a. England. Presented by J. C. Dale, Esq.

b. France.

*OXYCERA formosa*, *Wiedemann, Meig. Dipt.* iii. 127, 5. *Macq. Hist. Nat. Dipt.* i. 250, 4.

a. England. Presented by J. C. Dale, Esq.

*OXYCERA pygmæa*, *Meig. Dipt.* iii. 129, 7. *Stratiomys pygmæa*, *Fall. Stratiom.* 11, 9.

a. England. Presented by J. C. Dale, Esq.

*OXYCERA terminata*, *Meig. Dipt.* iii. 130, 9.

a. England. Presented by J. C. Dale, Esq.

*OXYCERA analis*, *Meig. Dipt.* iii. 130, 10.

a. England. Presented by J. C. Dale, Esq.

**OXYCERA** *Liburnia*, n. s., mas. *Nigro-cyanea, scutello quadridentato, antennis pedibusque nigris, genubus tarsisque fulvis, alis limpidis.*

Body very dark blue: head nearly as broad as the chest: eyes bright red: mouth and feelers black; bristle of the latter nearly as long as all the preceding joints: scutcheon armed with four teeth: legs black; knees and feet tawny: wings colourless; wing-ribs and veins tawny, some of the latter piceous; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wing 5—6 lines.

a. Jamaica. From Mr. Gosse's collection.

### STRATIOMYS, *Geoffroy.*

**STRATIOMYS** *chamæleon*, *Fabr. Sp. Ins.* ii. 416, 1. *Ent. Syst.* iv. 263, 3. *Syst. Antl.* 77, 1. *Schæff. Icon. pl.* 59, f. 3. *Schränk. Faun. Boic.* iii. 2376. *Ins. Austr.* 886. *Panz. Faun. Germ.* viii. 24. *Latr. Gen. Crust.* iv. 274. *Cons. Gén.* 442. *Fall. Stratiom.* 7, 1. *Meig. Klass. Zweif.* i. 126, 4, pl. 7, f. 19. *Dipt.* iii. 134, 1. *Macq. Hist. Nat. Dipt.* i. 243, 1. *Musca chamæleon*, *Linn. Faun. Suec.* 1780. *Gmel. Ed. Syst. Nat.* v. 2833, 3. *Deg. Ins.* vi. 64, 1. *Berk. Syn.* i. 162. *Don. Brit. Ins.* i. 67, pl. 31, f. 1, pl. 35. *Stew. El.* ii. 256. *Turt.* iii. 628. *Shaw, Gen. Zool.* vi. 379, pl. 105. *Musca, &c., Geoff. Ins.* ii. 479, 1. *Stratiomys nigrodentata*, *Meig. Klass. Zweif.* i. 127, 5, pl. 7, f. 19.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**STRATIOMYS** *Potamida*, *Meig. Dipt.* iii. 136, 3. *Macq. Hist. Nat. Dipt.* i. 243, 2, pl. 6, f. 4. *S. chamæleon*, mas., *Meig. Klass. Zweif.* i. 126, 4, pl. 7, f. 18.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**STRATIOMYS** *furcata*, *Fabr. Ent. Syst.* iv. 264, 5. *Syst. Antl.* 78, 3. *Meig. Dipt.* iii. 138, 5, pl. 26, f. 12. *Macq. Hist. Nat. Dipt.* i. 244, 5. *S. panthaleon*, *Fall. Stratiom.* 7, 2. *Musca singularis*? *Harr. Ex.* 45, pl. 11, f. 3.

a. England.

b. France.

**STRATIOMYS strigata**, *Fabr. Sp. Ins.* ii. 417, 4. *Ent. Syst.* iv. 265, 10. *Syst. Antl.* 80, 9. *Schæff. Icon. pl.* 14, f. 10. *Schrank. Faun. Boic.* iii. 2377. *Panz. Faun. Germ.* xii. 20. *Latr. Gen. Crust.* iv. 274. *Meig. Dipt.* iii. 139, 7. *Macq. Hist. Nat. Dipt.* i. 244, 7. *S. thoracica*, *Fabr. Syst. Antl.* 79, 7. *S. villosa*, *Meig. Klass. Zweif.* i. 125, 1. *S. nubeculosa*, *Meig. Klass. Zweif.* i. 125, 3. *Musca strigata*, *Gmel. Ed. Syst. Nat.* v. 2834, 153. *Musca*, &c., *Geoff. Ins.* ii. 480, 2. *Hirtea longicornis*, *Scop. Ent. Carn.* 999.

a. England.

b. France.

c. Albania. Presented by W. W. Saunders, Esq.

**STRATIOMYS annulata**, *Megerle. Meig. Dipt.* iii. 143, 11.

a. Tunis. From Mr. Fraser's collection.

**STRATIOMYS Badius**, n. s., mas. et fem. *Nigra, capite maculis duabus flavis, fem. fulvo scutelli margine fulvo, abdominis fasciis lateribus vittaque apicali flavis antennis nigris, pedibus flavis, femoribus nigris, alis fuscis.*

*Male*.—Body black: head nearly as broad as the chest, thickly clothed beneath and in front with pale tawny hairs, beset between the eyes with black hairs: a large yellow spot on each side of the front: eyes black; facets of the lower part of the front much smaller than those of the other part, the passage from the facets of one size to those of the other is abrupt and strongly marked: mouth and feelers black: chest and breast clothed with tawny hairs: hind border of the scutcheon tawny, armed with two pale ferruginous teeth with black tips: abdomen nearly oval, a little broader and longer than the chest, clothed above with short black hairs, beneath and at the tip with short tawny hairs: sides and hind borders of the segments yellow; two of these bands are interrupted, and there is a short yellow stripe at the tip of the abdomen: legs pale tawny, clothed with tawny hairs; hips, thighs, and tips of claws black: wings brown, darker along the fore borders; wing-ribs piceous; veins and poisers ferruginous. *Fem.*—Head tawny; crown black, with a yellow spot on each side: only one band of the abdomen interrupted. Length of the body 5—6 lines; of the wings 10—12 lines.

a. New Holland. Presented by the Entomological Club.

**STRATIOMYS ischiaca**, *Harris, Catalogue Ins. Massachusetts.* Fem. *Nigra, capite fulvo maculis nigris, scutello fulvo, abdominis fasciis lateribus vittaque apicali fulvis, antennis nigris, pedibus fulvis, femoribus nigro maculatis, alis fuscis.*

Body black: head tawny, nearly as broad as the chest, clothed with pale yellow hairs; crown adorned with a black stripe and two

black bands: eyes black, convex; facets very small; those along the side borders rather larger: mouth and feelers black: chest clothed with pale tawny hairs, adorned with two indistinct whitish stripes; scutcheon tawny, armed with two tawny teeth; breast and underside with short tawny hairs, adorned with a short tawny stripe at its tip; sides and hind borders of the segments tawny; first band interrupted above: legs tawny, clothed with short tawny hairs; thighs with a black spot on each side; claws black: wings brown, darker along the fore borders; wing-ribs piceous; veins ferruginous; poisers tawny, with apple-green knobs. Length of the body 6 lines; of the wings 11 lines.

a. United States. Presented by the Entomological Club.

STRATIOMYS porma, *Wied. Auss. Zweif. ii. 62, 3.*

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

STRATIOMYS Barca, n. s., mas. *Nigra, scutelli dentibus duabus fulvis apice nigris, abdominis fasciis fulvis supra interruptis vittaque apicali fulva, antennis pedibusque nigris, tibiis piceis, tarsis fulvis, alis fusco-fulvis.*

Body black: head narrower than the chest, thickly clothed in front and beneath with golden hairs: eyes piceous, thin, facets very small; those of the fore part larger: mouth black, clothed with short pale tawny hairs: feelers black, full twice the length of the head: chest finely punctured, clothed with short ferruginous hairs; breast clothed with pale tawny hairs; scutcheon armed with two tawny teeth, whose tips are black: abdomen rather thick, clothed with tawny hairs, a little broader and longer than the chest; hind borders of the segments tawny beneath, and on each side above: a short tawny stripe on the tip of the abdomen: legs clothed with tawny hairs; hips and thighs black; shanks piceous; knees and feet tawny: wings brownish tawny; wing-ribs and fore border veins piceous; other veins and poisers tawny. *Fem.*—Head clothed with whitish hairs: chest clothed with pale tawny hairs; hind border and teeth of the scutcheon tawny: shanks tawny. Length of the body 5—6 lines; of the wings 9—10 lines.

a. China. Presented by G. T. Lay, Esq.

STRATIOMYS Nymphis, n. s., mas. *Nigra, scutello flavo, abdominis fasciis fulvis supra interruptis, antennis nigris, pedibus fulvis, femoribus nigris, alis limpidis.*

Body black: head nearly as broad as the chest, thickly clothed beneath with pale yellow hairs: eyes bronze-black; facets small,

those of a little part on each side very small: mouth and feelers black, the latter a little longer than the head; tip of the second joint piceous: chest and breast clothed with pale yellow hairs; scutcheon yellow, armed with two yellow teeth, whose tips are ferruginous: abdomen a little broader, but hardly longer than the chest, thinly clothed with short pale yellow hairs; hind border of each segment adorned above with a broad short tawny band on each side, and beneath with an entire band; tip tawny: legs tawny, clothed with short yellow hairs; hips and thighs black; tips of the latter tawny: wings colourless, slightly tawny along the fore borders; wing-ribs, fore border-veins, and cross-veins tawny; the other veins yellow; poisers tawny. *Fem.*—Head tawny; crown black. Length of the body 5—6 lines; of the wings 9—11 lines.

Var.  $\beta$ . *Fem.*—Thighs tawny, each adorned with two black bands.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*STRATIOMYS nigrifrons*, n. s., mas. *Nigra, scutelli margine postico flavo, abdominis lateribus maculisque ad apicem duabus flavis, ventris fasciis flavis, antennis pedibusque nigris, tibiis apice tarsisque fulvis, alis fuscis.*

Body black: head as broad as the chest, clothed with tawny hairs: eyes black; a small part on each side composed of very small facets: mouth and feelers black: chest and breast clothed with dark tawny hairs; hind border of the scutcheon yellow, armed with two tawny spines: abdomen nearly oval, a little broader and longer than the chest, thinly clothed with short tawny hairs, yellow on each side, and adorned with a yellow spot on each of the two last segments; hind border of each segment on the underside adorned with a yellow stripe, which is widened in the middle: legs black, clothed with short tawny hairs; shanks tawny towards the base; feet tawny; hind shanks tawny, with two black bands: wings brown; wing-ribs piceous; veins ferruginous; poisers tawny, with apple-green knobs. *Fem.*—All the facets of the eyes very small: hind border of the scutcheon tawny: sides and hind borders of the segments of the abdomen tawny, its upper side also adorned with a short tawny stripe at the tip, and with a large tawny spot on each side of the base: feet piceous above; claws black, tawny at the base; knobs of poisers tawny. Length of the body 6—6½ lines; of the wings 10—11 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**STRATIOMYS Meigenii**, *Wied. Auss. Zweif.* ii. 61, 2, *pl.* 8, *f.* 7.

*a.* New York. Presented by E. Doubleday, Esq.

### ODONTOMYIA, Latreille.

**ODONTOMYIA pulchra**, *Wied. Anal. Ent.* 28, 32. *Auss. Zweif.* ii. 65, 6, *pl.* 8, *f.* 5, *a.*, *b.*

*a.* Brazil. Presented by Sir C. Stewart.

*b.* ———?

**ODONTOMYIA vertebrata**, *Say, Long's Exped.* 369. *Stratiomys vertebrata*, *Wied. Auss. Zweif.* i. 73, 20.

*a.* Nova Scotia. From Lieut. Redman's collection.

**ODONTOMYIA microleon**, *Latr. Gen. Crust.* iv. 274. *Fall. Stratiom.* 8, 3. *Musca microleon*, *Linn. Faun. Suec.* 178, 1. *Gmel. Ed. Syst. Nat.* v. 2834, 4. *Deg. Ins.* vi. 64, 2, *pl.* 9, *f.* 1, 2. *Schränk. Ins. Austr.* 887. *Stratiomys microleon*, *Fabr. Sp. Ins.* 417, 3. *Ent. Syst.* iv. 265, 9. *Syst. Antl.* 80, 8. *Meig. Dipt.* iii. 140, 8.

*a.* England.

**ODONTOMYIA Garatas**, n. s., fem. *Cinerea, capite fulvo subtus flavo, scutello flavo bidentato, abdomine flavo fasciato, antennis piceis basi fulvis, pedibus fulvis, alis albidis.*

Head tawny, nearly as broad as the chest, yellow beneath; front prominent; eyes piceous; facets very small: mouth black, hairy: feelers piceous; first and second joints tawny: chest and breast gray, clothed with short bright tawny hairs; scutcheon yellow, armed with two short teeth: abdomen yellow, broader, but hardly longer than the chest; fore border of each segment adorned with a broad black band, whose hind border is angular, and differs from those of the other bands: legs tawny; feet pitchy towards the tips: wings whitish; wing-ribs, veins, and poisers tawny. Length of the body  $4\frac{1}{2}$ — $5\frac{1}{2}$  lines; of the wings 7—9 lines.

*a.* China. Presented by G. T. Lay, Esq.

**ODONTOMYIA Lutatus**, n. s., fem. *Nigra, capite subtus fulvo, scutelli margine postico fulvo bidentato, abdomine ferrugineo, antennis rufis, pedibus fulvis, alis albidis.*

Body black, clothed with short golden hairs: head full as broad as the chest; front and underside tawny: eyes piceous; facets very small: mouth black: feelers pale red; tips piceous: scutcheon hairless; hind border tawny, armed with two short teeth:

abdomen pale ferruginous, a little broader, but not longer than the chest: legs tawny; hips mostly black; tips of feet piceous: wings whitish; wing-ribs, veins, and poisers tawny. Length of the body 5 lines; of the wings 9 lines.

a. ———?

ODONTOMYIA Ialemus, n. s., mas. *Nigra, capite fulvo, scutelli marginæ postico fulvo bidentato, abdomine flavo, vitta lata dorsali nigra, antennis rufis apice nigris, pedibus fulvis, alis albidis.*

Head tawny, full as broad as the chest, clothed beneath with white hairs; hypostoma pale yellow: eyes reddish bronze, convex, their facets of moderate size; small part in front flat, composed of very small facets: mouth black: feelers pale red, with black tips: chest and breast black, thickly clothed with tawny hairs; hind border of the scutcheon tawny, armed with two tawny teeth: abdomen yellow, a little broader, but not longer than the chest, clothed with short shining white hairs; a very broad black stripe occupies most of the disk of the back: legs tawny; thighs clothed with white hairs; feet piceous towards the tips: wings whitish; wing-ribs and veins tawny; poisers tawny, with apple-green knobs. Length of the body  $4\frac{1}{2}$ —5 lines; of the wings 8—9 lines.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

ODONTOMYIA Hydromyia, Macq. Hist. Nat. Dipt. i. 247, 7. Stratiomys Hydromyia, Meig. Dipt. iii. 146, 15.

a. ———?

b. ———?

ODONTOMYIA Balius, n. s., mas. et fem. *Nigra, abdominis lateribus albo trifasciatis, apice albo, antennis pedibusque nigris, alis subcinereis ad costam subfuscis.*

Body black: head and chest thickly clothed with pale dull tawny hairs: mouth, feelers and eyes black, the latter very hairy: abdomen hardly longer than broad, a little longer and much broader than the chest, more thinly clothed with shorter and brighter tawny hairs, adorned with three white cross streaks on each side of the hind borders of the segments, and with a white tip; underside black: legs black, clothed with pale short tawny hairs; feet covered beneath with ferruginous hairs; foot-cushions pale tawny; claws red, with black tips: wings slightly gray, tinged with brown along the fore borders for more than half the length; wing-ribs pitchy; veins tawny; poisers white. Length of the body 4— $4\frac{1}{2}$  lines; of the wings 8—9 lines.

a. Albania. Presented by W. W. Saunders, Esq.

b. France.

c. ———?



*ODONTOMYIA pallipes*, *Fabr. Ent. Syst.* iv. 265, 12. *Syst. Antl.* 81, 13. *Wied. Auss. Zweif.* i. 76, 26.

a. New York. Presented by the Entomological Club.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ODONTOMYIA intermedia*, *Wied. Auss. Zweif.* i. 64, 5.

a. New York. Presented by the Entomological Club.

b. Trenton Falls. Presented by E. Doubleday, Esq.

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

d. Nova Scotia. From Lieut. Redman's collection.

*ODONTOMYIA argentata*, *Fabr. Ent. Syst.* iv. 266, 15. *Syst. Antl.* 82, 17. *Panz. Faun. Germ.* lxxi. 20, cviii. 10. *Fall. Stratiom.* 95. *Meig. Dipt.* iii. 141, 9. *Macq. Hist. Nat. Dipt.* i. 246, 4, pl. 6, f. 5. *Latr. Gen. Crust.* iv. *Meig. Klass. Zweif.* i. 131, a.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*ODONTOMYIA splendens*. *Stratiomys splendens*, *Fabr. Ent. Syst.* iv. 264, 4. *Syst. Antl.* 78, 2. *Cog. Ill.* 116, pl. 26, f. 2. *Meig. Klass. Zweif.* i. 127, a. *Dipt.* iii. 142, 10.

a. ———? From Mr. Children's collection.

*ODONTOMYIA tigrina*, *Macq. Hist. Nat. Dipt.* i. 246, 6. *Stratiomys tigrina*, *Fabr. Sp. Ins.* ii. 417, 6. *Ent. Syst.* iv. 267, 16. *Syst. Antl.* 82, 18. *Schrank. Faun. Boic.* iii. 2381. *Panz. Faun. Germ.* lviii. 20. *Meig. Dipt.* iii. 152, 22. *Musca tigrina*, *Gmel. Ed. Syst. Nat.* v. 2835, 157. *Musca*, &c., *Geoff. Ins.* ii. 481, 5. *Odontomyia tigrina*, *Latr. Gen. Crust.* iv. 275. *Meig. Klass. Zweif.* i. 130, 3. *Stratiomys nigrita*, *Fall. Stratiom.* 9, 4.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*ODONTOMYIA ornata*. *O. furcata*, *Meig. Klass. Zweif.* i. 129, 1. *Latr. Gen. Crust.* iv. 275. *Reaum. Ins.* iv. pl. 24, f. 4—7. *Rösel. Ins.* ii. *Musc.* pl. 5? *Stratiomys ornata*, *Meig. Dipt.* iii. 144, 13.

a. England.

**ODONTOMYIA** *Hydroleon*, *Meig. Klass. Zweif.* i. 131, c. *Latr. Gen. Crust.* iv. 275. *Macq. Hist. Nat. Dipt.* i. 247, 9. *O. angulata*, *Meig. Klass. Zweif.* i. 133, h. *Musca Hydroleon*, *Linn. Faun. Suec.* 1782. *Gmel. Ed. Syst. Nat.* v. 2835, 5. *Deg. Ins.* vi. 65, 3, pl. 9, f. 4. *Geoff. Ins.* ii. 481, 4. *Schell. Gen. Mouch.* pl. 24, f. 3. *Schrank, Faun. Boic.* iii. 2382. *Ins. Austr.* 888. *Stratiomys Hydroleon*, *Sp. Ins.* ii. 417, 7. *Ent. Syst.* iv. 267, 17. *Syst. Antl.* 82, 19. *Fall. Stratiom.* 84. *Panz. Faun. Germ.* vii. 21. *Meig. Dipt.* iii. 148, 17. *S. angulata*, *Panz. Faun. Germ.* lviii. 19.

a. England.

b. ——— ?

**ODONTOMYIA** *viridula*, *Latr. Gen. Crust.* iv. 275. *Cons. Gén.* 442. *Meig. Klass. Zweif.* i. 133, g. *Macq. Hist. Nat. Dipt.* i. 247, 10. *Stratiomys viridula*, *Fabr. Sp. Ins.* ii. 418, 8. *Ent. Syst.* iv. 267, 18. *Syst. Antl.* 84, 25. *Panz. Faun. Germ.* lviii. 18. *Schrank. Faun. Boic.* iii. 238. *Fall. Stratiom.* 10, 6. *Meig. Dipt.* iii. 149. *S. marginata*, *Fabr. Syst. Antl.* 84, 27. *S. canina*, *Panz. Faun. Germ.* lviii. 18. *Musca viridula*, *Gmel. Ed. Syst. Nat.* v. 2835, 158. *Schæff. Icon.* pl. 14, f. 14. *Odontomyia dentata*, *Meig. Klass. Zweif.* i. 130, 2. *O. canina*, *Meig. Klass. Zweif.* i. 132, e.

a. England.

b. France.

c. Ukraine. Presented by Dr. Dowler.

d. ——— ? From Mr. Children's collection.

**ODONTOMYIA** *Amyris*, n. s. *Niger, capite subtus pectoreque fulvis, scutello flavo bidentato, abdominis lateribus ventrique flavis, antennis fulvis apice piceis, pedibus fulvis, alis limpidis.*

Body black: head tawny beneath, full as broad as the chest, metallic green on each side behind the eyes: eyes bright red: mouth black: feelers piceous, tawny beneath; first and second joints tawny; bristle black: chest clothed with short tawny hairs; breast tawny; scutcheon yellow, armed with two short yellow teeth: abdomen black, rather longer than broad, wider and a little longer than the chest; sides and underside yellow: legs tawny: wings colourless; wing-ribs, fore borders, veins, and poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

a. New Holland. Presented by the Haslar Hospital.

**ODONTOMYIA dorsalis**, *White, Zool. Voy. Erebus and Terror. Fem. Nigra, capite piceo, pectore fulvo, scutello viridi, abdominis lateribus viridibus, antennis piceis, pedibus fulvis, alis albidis.*

Head piceous, and clothed with short tawny hairs above, green in front and beneath: eyes piceous: mouth black: feelers piceous: chest black: breast tawny; scutcheon apple-green, unarmed: abdomen black, broader, but not longer than the chest; sides green, of a deeper hue than that of the scutcheon: legs tawny: wings whitish; wing-ribs tawny; veins yellow; poisers tawny, with green knobs. Length of the body 3 lines; of the wings 6 lines.

a. New Zealand. Presented by Dr. Sinclair.

**ODONTOMYIA** *Paron, n. s., mas. Nigra, (mas.) aut nigro-anea (fem.) scutelli dentibus duobus fulvis, abdominis lateribus ventrequ fulvis aut flavis aut viridibus, antennis nigris basi rufis, pedibus fulvis, alis albidis.*

*Male*.—Body black: head as broad as the chest, clothed in front with short whitish hairs, red about the feelers: eyes reddish bronze; facets of the fore part larger than those elsewhere: mouth black: feelers black, red at the base: chest and breast thickly clothed with tawny hairs: scutcheon armed with two tawny teeth: sides and underside of abdomen tawny, sometimes yellow and tinged with green: legs tawny; wings whitish; wing-ribs tawny; veins yellow; poisers tawny, with apple-green knobs. *Fem*.—Head and chest bronzed: head black about the base of the feelers. Length of the body 3 lines; of the wings 6 lines.

a. New York Presented by the Entomological Club.

b. New York. Presented by E. Doubleday, Esq.

c. Trenton Falls. Presented by E. Doubleday, Esq.

**ODONTOMYIA maculifrons**, *n. s. Niger, capite viridi, nigro maculato, thorace pectoreque flavo-marginatis, scutello viridi dentibus duobus flavis armato, abdomine flavo, disco nigro, antennis fulvis apice piceis, pedibus flavis, femoribus nigro fasciatis, alis limpidis.*

Head apple-green, full as broad as the chest, smooth, shining, adorned with five pair of black marks; first pair forming a short band on each side of the eyelets; second pair forming more slender curved bands; third and fifth pair forming four dots; fourth pair forming two larger spots: eyes and eyelets piceous, the former with a band across the middle: mouth black: feelers piceous, longer than the head; first and second joints tawny, long; first joint shining; third and following joints short: chest black, clothed with

tawny hairs, adorned on each side with a yellow stripe, which is narrow in front; breast black; sides yellow; scutcheon apple-green, armed with two short pale yellow teeth: abdomen yellow, nearly as broad as long, wider, but not longer than the chest, yellow, clothed with long pale yellow hairs; disk black above, especially on the hinder part: legs yellow; hips black; a black band on each thigh: wings colourless; wing-ribs, veins, and poisers yellow. Length of the body  $2\frac{1}{4}$  lines; of the wings 4 lines.

a. Honduras. From Mr. Dyson's collection.

#### Fam. XIV. SYRPHICI.

##### Group I.

*CERIA conopsoides*, Meig. *Dipt.* iii. 160, 2, pl. 26, f. 22—25. *Curt. Brit. Ent.* 186. *Macq. Hist. Nat. Dipt.* i. 484, 1, pl. 11, f. 1. *Dufour. Ann. Soc. Ent. France*, 2de série, v. 19, pl. 1, f. 1—6. *Musca conopsoides*, Linn. *Syst. Nat. Ed.* xii. 982, 21. *Faun. Suec.* 1790. *Schell. Gen. Mouch.* pl. 23, f. 1, a, b. *Ceria clavicornis*, Fabr. *Ent. Syst.* iv. 277, 1. *Suppl.* 557, 1. *Syst. Antl.* 173. *Latr. Gen. Crust.* iv. 328. *Cons. Gén.* 443. *Meig. Klass. Zweif.* i. 282, 1, pl. 14, f. 10, 12. *Fall. Syrph.* 6. *Syrphus conopseus*, Panz. *Faun. Germ.* xlv. 20. *Conops vaginicornis*, Schrank, *Faun. Boic.* iii. 2561.

a. England.

b. France.

*CERIA Daphnæus*, n. s., fem. *Ferruginea, flavo fasciata, nigroque varia, pedibus fulvis, femoribus nigris, alis dimidio costali fulvis.*

Head tawny, smooth, shining, a little broader than the chest: eyes red: united part of the feelers piceous, tawny at the base: chest ferruginous, adorned with yellow bands, of which one is in front of the wings, the other is across the scutcheon: there is also a yellow spot on each side in front; hind part of the chest, including the scutcheon, black: breast black, with a very large yellow spot on each side: abdomen ferruginous, elliptical, much longer but not broader than the chest, contracted at the base, which is black, with a yellow band; hind borders of the segments yellow, edged with pitch-colour: legs tawny; hips and thighs black, tips of the latter tawny: wings tawny for more than half the breadth from the fore borders and along the whole length; hind part colourless;

wing-ribs and veins tawny; poisers yellow. Length of the body 7 lines; of the wings 12 lines.

a. Jamaica. From Mr. Gosse's collection.

*CERIA intricata*, *Saunders, Trans. Ent. Soc. Lond.* iv. 64, 1, pl. 4, f. 2.

a. Albania. Presented by W. W. Saunders, Esq.

*CERIA ornata*, *Saunders, Trans. Ent. Soc. Lond.* iv. 64, 2, pl. 4, f. 3.

a. North West Coast of New Holland. Presented by J. Hunter, Esq.

### Group II.

*CERIA Eumenioides*, *Saunders, Trans. Ent. Soc. Lond.* iii. 60, pl. 5, f. 6.

a. North Bengal. Presented by W. W. Saunders, Esq.

### MICRODON, Illiger.

#### Group I.

*MICRODON fulgens*, *Wied. Auss. Zweif.* ii. 82, 1, m. *M. euglossoides*, *G. R. Gray, Griff. Anim. Kingd. Ins.* ii. pl. 125, f. 2.

a. Georgia. From Mr. Abbot's collection.

*MICRODON stilboides*, n. s., fem. *Viridis micans, cyaneo purpureo æneoque varius, antennis nigris, pedibus purpureis, alis fuscis.*

Body bright emerald green, punctured: head adorned with blue and purple on the crown, thinly clothed in front with short whitish hairs: mouth and feelers black: eyes red; facets on the fore part of the crown larger than those elsewhere: chest clothed with short black hairs, slightly coppery in front, tinged with blue and purple behind; scutcheon truncate; hind angles slightly projecting: abdomen very slightly furrowed across the back, longer and broader than the chest, blue and purple towards the base, coppery, and with two impressions towards the tip: legs purple, clothed with short black hairs; claws black; foot-cushions tawny: wings brown, darker along the fore borders; wing-ribs blue; veins black; poisers yellow. Length of the body 6 lines; of the wings 12 lines.

a. East Indies. From Archdeacon Clerk's collection.

## Group II.

MICRODON apiformis, Meig. *Dipt.* iii. 163, 1. *Curt. Brit. Ent. pl.* 70. *Zeit. Ins. Lapp.* 589, 1. *Wissmann, Ent. Stettin*, ix. 1848, 79, xi. *M. mutabilis*, Linn. *Syst. Nat.* ii. 985. *Faun. Suec.* 1807. *M. apiformis*, Deg. *Ins.* vi. 56, 18, *pl.* 7, *f.* 18—20. *Schell. Gen. Mouch. pl.* 22, *f.* 1. *M. nova*, Schrank. *Ins. Austr.* 889. *Mulio apiarius*, Fabr. *Syst. Antl.* 185, 9. *M. mutabilis*, Panz. *Faun. Germ.* lxxxii. 21. *Stratiomys pigra*, Schrank. *Faun. Boic.* iii. 2387. *Aphritis aureo-pubescentis*, Latr. *Gen. Crust.* iv. *pl.* 16, *f.* 7, 8. *Cons. Gén.* 443. *Microdon mutabilis*, Fall. *Syrph.* 4, 1. *Elditt. Ent. Zeit. Stett.* vi. 384, *pl.* 1, *f.* 6—14. *Aphritis apiformis*, Macq. *Hist. Nat. Dipt.* i. 486, 1.

a. England.

b. France.

Some of the synonyms of this and the following species are uncertain.

MICRODON mutabilis, Meig. *Dipt.* iii. 164, 2. *Musca mutabilis*, Linn. *Faun. Suec.* 1807. *Gmel. Ed. Syst. Nat.* v. 2842, 40. *M. plebeia*, Schrank. *Ins. Austr.* 890. *Syrphus mutabilis*, Fabr. *Sp. Ins.* ii. 428, 33. *Ent. Syst.* iv. 294, 59. *Mulio mutabilis*, Fabr. *Ent. Syst. Suppl.* 558, 3. *Syst. Antl.* 184, 4. *Stratiomys conica*, Panz. *Faun. Germ.* 12, 21.

a. England.

b. France.

MICRODON Agapenor, n. s., fem. *Piceus, capite abdominisque basi ferrugineis, antennis piceis basi ferrugineis, pedibus ferrugineis, femoribus nigris, alis cinereis, venis fulvo marginatis.*

Body stout, piceous, clothed with short tawny hairs: head ferruginous, a little narrower than the chest, clothed with short pale yellow hairs, black on the crown: eyes piceous; facets small: feelers piceous, much longer than the head, ferruginous at the base; branch ferruginous, spindle-shaped: abdomen oval, longer and broader than the chest, very finely furrowed across the back; first and second segments ferruginous: legs ferruginous, clothed with short tawny hairs; hips and thighs black; tips of the latter ferruginous: wings gray; wing-ribs and veins pitch-colour; veins bordered with brown; poisers tawny. Length of the body 4—5 lines; of the wings 8—9 lines.

a. Georgia. From Mr. Abbot's collection.

b. ———?

## Group III.

**MICRODON globosus**, Wied. *Auss. Zweif.* ii. 86, 11. *Mulio globosus*, Fabr. *Syst. Antl.* 185, 9. *Aphritis globosus*, Macq. *Dipt. Exot.* ii. 13, 5, pl. 1, f. 4. *Dimeraspis podagra*, Newman, *Ent. Mag.* v. 373.  
 a. Illinois. Presented by E. Doubleday, Esq.

## Group IV.

**MICRODON varius**, n. s., fem. *Flavus nonnunquam piceo maculatus, capitis disco nigro, thorace nigro, lateribus fascia scutellique margine flavis, abdomine maculis quatuor vittis duabus apiceque nigris, antennis fuscis, articulo 3o. subtus flavo, pedibus flavis, femoribus tibiisque posticis piceis, alis fusco variis.*

Body yellow, thickly clothed with short tawny hairs: disk of head black; a pitchy streak between the feelers and the mouth, which is also partly pitchy: eyes reddish brown; facets on the fore part of the crown rather larger than those elsewhere: feelers brown; third joint yellow beneath, excepting the tip; bristle tawny: chest and breast black; sides yellow; a yellow band in front of the scutcheon, whose hind border is also yellow; sides and hind part of chest armed with a few long black bristles: abdomen thickly punctured, much longer than the chest, with a black stripe along each side to the tip, which is also black, adorned with a black spot on each side of the base, and with two truncate conical black spots on the back: legs pale yellow, hairy; hind thighs towards the tips and hind shanks pitchy; tips of claws black: wings slightly gray, marked with a small brown spot on the middle of the fore border, and beyond it with two brown bands; wing-ribs tawny: veins pitchy; poisers yellow. Length of the body  $1\frac{1}{2}$ —2 lines; of the wings  $3\frac{1}{4}$ —5 lines.

*Var. β.* Pitchy instead of black: abdomen tawny at the tip: hind thighs and hind shanks pitchy: brown marks on the wing confused in one large spot.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**CHRYSOTOXUM, Meigen.**

**CHRYSOTOXUM bicinctum**, Latr. *Gen. Crust.* iv. 327. *Cons. Gén.* 443. *Meig. Dipt.* iii. 168, 1. *Macq. Hist. Nat. Dipt.* i. 489, 1. *Zett. Ins. Lapp.* 588, 4. *Loëw, Ent. Zeit. Stettin*, ii. 138,

159. *Curt. Brit. Ent.* 653, 1. *Musca bicincta*, Linn. *Syst. Nat.* ii. 985. *Faun. Suec.* 1805. *Gmel. Ed. Syst. Nat.* 2872, 39. *Deg. Ins.* vi. 56, 16. *Schell. Gen. Mouch.* pl. 22, f. 2. *Schrank. Faun. Boic.* iii. 2413. *Don. Brit. Ins.* x. 54, pl. 346, f. 2. *Syrphus bicinctus*, *Fabr. Sp. Ins.* ii. 427, 30. *Ent. Syst.* iv. 293, 54. *Panz. Faun. Germ.* xiv. 18. *Mulio bicinctus*, *Fabr. Ent. Syst. Suppl.* 557, 1. *Syst. Antl.* 183, 2. *Fall. Syrph.* 6, 3. *Musca callosus*, *Harr. Ex.* 61, pl. 15, f. 18.

- a. England.
- b. France.
- c. Ukraine. Presented by Dr. Dowler.
- d. ——— ? From Mr. Children's collection.
- e. New Holland.

*CHRYSOtoxum arcuatum*, *Latr. Gen. Crust.* iv. 327. *Meig. Dipt.* iii. 168, 2. *Macq. Hist. Nat. Dipt.* i. 489, 2. *Zett. Ins. Lapp.* 588, 3. *Loew, Ent. Zeit. Stettin*, ii. 159. *Curt. Brit. Ent.* 653, 2. *Musca arcuata*, Linn. *Syst. Nat.* ii. 985. *Faun. Suec.* 1806. *Gmel. Ed. Syst. Nat.* v. 2872, 39. *Deg. Ins.* vi. 55, 15. *Schæff. Icon.* pl. 73, f. 8. *Geoff. Ins.* 506, 28. *Schrank. Faun. Boic.* iii. 2407. *Stew, El.* ii. 265. *Turt.* iii. 645. *Syrphus arcuatus*, *Fabr. Sp. Ins.* ii. 427, 31. *Ent. Syst.* iv. 293, 55. *Mulio arcuatus*, *Fabr. Ent. Syst. Suppl.* 558, 2. *Syst. Antl.* 184, 3. *Fall. Syrph.* 5, 2. *Musca imbellis*, *Harr. Ex.* 60, pl. 15, f. 16.

- a. England.
- b. France.
- c. ——— ? From Mr. Children's collection.

*CHRYSOtoxum scutellatum*, *Macq. Dipt. Nord.* 4. *Hist. Nat. Dipt.* i. 490, 4. *Loew, Ent. Zeit. Stettin*, ii. 159, 6.

- a. England.

*CHRYSOtoxum intermedium*, *Meig. Dipt.* iii. 169, 3, pl. 27, f. 6. *Macq. Hist. Nat. Dipt.* i. 489, 3. *Curt. Brit. Ent.* 653, 3. *Mulio arcuatus*, var. fem., *Fall. Syrph.* 5, 2.

- a. Albania.

*CHRYSOtoxum fasciolatum*, *Meig. Dipt.* iii. 170, 4. *Macq. Hist. Nat. Dipt.* i. 420, 5, pl. 11, f. 6. *Zett. Ins. Lapp.* 588, 2. *Loew, Ent. Zeit. Stettin*, ii. 160. *Curt. Brit. Ent.* 653, 4. *Musca fasciolata*, *Deg. Ins.* vi. 55, pl. 7, f. 13. *Milesia ves-piformis*, *Fabr. Syst. Antl.* 188.

- a. England.
- b. France.
- c. ——— ? From Mr. Children's collection.
- d. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.



**CHRYSOXUM hortense**, Meig. *Dipt.* iii. 173, 8. Loew, *Ent. Zeit. Stettin*, ii. 160.

a. ———? From Mr. Children's collection.

**CHRYSOXUM Baphyrus**, n. s., mas. *Flavum, thoracis vittis tribus viridianeis, abdomine fulvo, dorso ad apicem piceo, antennis fulvis apice piceis, pedibus fulvis, tibiis anticis flavis, alis limpidis.*

Head white, clothed behind with short tawny hairs, bright yellow with a tawny stripe in front: mouth pitchy; feelers tawny, pitchy towards the tips: eyes brassy red; their facets nearly alike in size: chest and breast yellow, the former adorned with three brassy green stripes; disk of the scutcheon tawny: abdomen tawny, slightly ferruginous on the disk, which has a pitchy band; the hind half of the abdomen is also mostly pitchy: legs tawny; fore shanks yellow: wings colourless; wing-ribs and poisers tawny; veins brown, tawny towards the base and along the fore borders. Length of the body 5 lines; of the wings 10 lines.

a. North Bengal. From Miss Campbell's collection.

**CHRYSOXUM derivatum**, n. s., mas. *Nigrum, capite flavo vittis duabus nigris, thoracis lateribus flavo variis, scutello fusco basi flavo, abdominis vittis tribus interruptis duabusque integris flavis, apice maculis tribus flavis ornato, pedibus flavis femoribus nigris, alis subcinereis ad costam fuscis.*

Body black: head yellow, as broad as the chest, clothed beneath with tawny hairs, adorned with a black stripe in front: eyes dark reddish bronze, downy; facets very small: mouth and feelers black: chest clothed with black hairs, adorned with an interrupted yellow stripe on each side; sides of the breast also varied with yellow: scutcheon brown, with a yellow band on the fore border: abdomen nearly oval, a little longer and broader than the chest, adorned with five yellow arched bands, of which the first, the second and the fourth are slightly interrupted, the third and the fifth are whole; there are also three large yellow spots at the tip of the abdomen: legs yellow, clothed with short tawny hairs; hips and thighs black, the latter yellow towards the tips: wings slightly gray, brown along the fore borders; wing-ribs and veins piceous; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHRYSOXUM erraticum*, n. s., fem. *Nigrum, fulvo hirtum, antennis nigris basi fulvis, pedibus fulvis, alis limpidis ad costam subfulvis.*

Body black, thickly clothed with short tawny hairs: head as broad as the chest: eyes dark red, very downy; facets very small, of equal size: mouth and feelers black; first joint of the latter tawny, with a black tip: abdomen oval, very little broader and longer than the chest: legs tawny; thighs clothed with yellow hairs: wings colourless, slightly tawny along the fore borders; wing-ribs, veins and poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 11 lines.

a. ——— ?

### PSARUS, Latreille.

#### Group I.

*PSARUS abdominalis*, *Fabr. Syst. Antl.* 211, 1. *Latr. Gen. Crust.* iv. 326. *Cons. Gén.* 443. *Meig. Dipt.* iii. 174, 1, *pl.* 27, *f.* 12. *Macq. Hist. Nat. Dipt.* i. 490, 1. *Musca, &c., Geoff. Ins.* ii. 519, 50. *Syrphus abdominalis*, *Fabr. Ent. Syst.* iv. 307, 108. *Ceria abdominalis*, *Fabr. Ent. Syst. Suppl.* 557, 2.

a. England.

b. France.

#### Group II. Mixtemyia, Macquart.

*PSARUS quadrifasciatus*, *Wied. Auss. Zweif.* ii. 91, 2. *Paragus quadrifasciatus*, *Say, Long's Exped.* ii. *Append.* 377. *Mixtemyia quadrifasciata*, *Macq. Hist. Nat. Dipt.* i. 491, 1. *pl.* 11, *f.* 8.

a. United States. Presented by the Entomological Club.

### PARAGUS, Latreille.

*PARAGUS bicolor*, *Latr. Gen. Crust.* iv. 326. *Cons. Gén.* 443. *Meig. Dipt.* iii. 178, 2. *Macq. Hist. Nat. Dipt.* i. 565, 2, *pl.* 12, *f.* 17. *Musca melanochrysa*, *Gmel. Ed. Syst. Nat.* v. 2879, 374. *Musca, &c., Geoff. Ins.* ii. 520, 51. *Mulio bicolor*, *Fabr. Suppl.* 559, 8. *Syst. Antl.* 186, 10. *Syrphus bicolor*, *Fabr. Ent. Syst.* iv. 297, 71.

a. England.

*PARAGUS arcuatus*, Meig. *Dipt.* iii. 179, 3, pl. 27, f. 20, 21. Macq. *Hist. Nat. Dipt.* i. 565, 3.

a. England.

b. ——— ?

*PARAGUS testaceus*, Meig. *Dipt.* iii. 180, 6. Macq. *Hist. Nat. Dipt.* i. 566, 6.

a. England.

b. France.

*PARAGUS albifrons*, Meig. *Dipt.* iii. 181, 8. Macq. *Hist. Nat. Dipt.* i. 566, 9. *P. thymiastris*, Latr. *Gen. Crust.* iv. 326. *Cons. Gén.* 443. *Syrphus thymiastris*, Panz. *Faun. Germ.* ix. 12. *Pipiza albifrons*, Fall. *Syrph.* 60, 6.

a. France.

*PARAGUS tibialis*, Meig. *Dipt.* iii. 183, 13. Macq. *Hist. Nat. Dipt.* i. 567, 14. *Pipiza tibialis*, Fall. *Syrph.* 60, 5.

a. England.

*PARAGUS femoratus*, Megerle, Meig. *Dipt.* iii. 184, 14.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

*PARAGUS obscurus*, Megerle, Meig. *Dipt.* iii. 183, 12. Curt. *Brit. Ent.* 593, 4.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

*PARAGUS transatlanticus*, n. s., fem. *Niger abdominis lateribus cano maculatis, antennis pedibusque nigris, tarsis et nonnunquam tibiis fulvis, alis limpidis.*

Body black, shining: head clothed with very short hoary hairs: mouth tawny: eyes dark red, downy; facets very small: feelers black; bristle tawny: chest and breast clothed with very short tawny hairs: abdomen a little broader than the chest, much less than twice its length: sides of the segments adorned with large spots of hoary bloom: legs black, thinly clothed with short tawny hairs; knees and feet bright tawny, tips of the latter black; foot-cushions tawny; first joint of the hind feet black, with a tawny tip; four front shanks tawny, with a black band on each: wings colourless: wing-ribs and veins piceous, some of the latter tawny towards the base; poisers yellow. Length of the body  $2\frac{1}{2}$ — $2\frac{3}{4}$  lines; of the wings 4—5 lines.

Var.  $\beta$ . Four front shanks tawny.

Var.  $\gamma$ . Four front shanks black.

a. New York. Presented by the Entomological Club.

b. Trenton Falls. Presented by E. Doubleday, Esq.

PARAGUS fuscipennis, n. s., mas. *Nigro-æneus, abdomine subtus fusco, antennis fuscis, pedibus nigris, genubus ferrugineis, tarsis piceis, alis fuscis.*

Body brassy black: head clothed with whitish hairs: feelers brown; bristle tawny: eyes dark red, very downy: chest clothed with tawny hairs: abdomen clothed with short black hairs, brown beneath, a little narrower than the chest and nearly twice its length; legs black, thickly clothed with tawny hairs; knees ferruginous; feet piceous, clothed with tawny down; claws black; foot-cushions tawny: wings brown; wing-ribs and veins black; poisers tawny. Length of the body 3 lines; of the wings  $4\frac{1}{2}$  lines.

a. ——— ?

PARAGUS æneus, n. s., fem. *Æneus, capitis sulcis transversis, thoracis vittis quatuor cupreis, antennis fuscis, pedibus æneis, tibiis tarsisque fulvis, illis æneo fasciatis, alis subcinereis ad costam subfuscis.*

Body brassy, thinly clothed with short hoary hairs: head as broad as the chest; crown wrinkled across: eyes piceous; fore part red above: mouth black: feelers brown; bristle tawny, black towards the tip: chest adorned with four reddish coppery stripes: abdomen nearly oval, a little broader and much longer than the chest: legs ferruginous, covered with tawny down; hips and thighs brassy; a broad brassy band across each shank; feet black towards the tips: wings slightly gray, tinged with brown along the fore borders; wing-ribs and veins piceous, the latter ferruginous towards the base; cross-veins clouded with brown; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Ohio. Presented by the Entomological Club.

PARAGUS latus, n. s., fem. *Niger, brevis, abdominis fascia lata flava, antennis fuscis, pedibus flavis, femoribus basi nigris, tibiis nigro fasciatis, tarsis fulvis, alis limpidis.*

Body black, shining, short and broad, thickly clothed with short tawny hairs: eyes red: mouth black: feelers brown; bristle tawny: abdomen nearly oval, broader and a little longer than the chest, adorned with a very broad yellow band across the middle: legs yellow; thighs from the base to the middle and hips black;

hind thighs black except their tips; a black band on each hind shank; feet tawny: wings colourless; wing-ribs black; veins piceous, yellow towards the base; poisers yellow. Length of the body 2 lines; of the wings 4 lines.

a. Sierra Leone. Presented by the Rev. F. W. Morgan.

PARAGUS Antimenes, n. s., mas. et fem. *Niger, abdominis fascia lata subinterrupta fulva, antennis nigris, pedibus fulvis, femoribus nigris, tibiis posticis nigro fasciatis, alis limpidis.*

Body black, short and broad, clothed with short tawny hairs: head as broad as the chest; front of the male yellow, of the female with a dark tawny stripe on each side: eyes piceous: mouth and feelers black: abdomen oval, a little broader and longer than the chest, adorned with a broad tawny, nearly interrupted band, which is broader in the male than in the female: legs tawny; hips and thighs black; tips of the latter tawny; a black band across each hind shank: wings colourless; wing-ribs tawny; veins black, tawny at the base; poisers tawny. Length of the body  $1\frac{1}{4}$ — $2\frac{1}{4}$  lines; of the wings  $3\frac{1}{2}$ —5 lines.

a. Isle of France.

### ASCIA, Megerle.

ASCIA podagrica, Meig. *Dipt.* iii. 186, 1. *Macq. Hist. Nat. Dipt.* i. 573, 1. *Zett. Ins. Lapp.* 582, 2. *Syrphus podagricus*, Fabr. *Sp. Ins.* ii. 430, 43. *Ent. Syst.* iv. 299, 77. *Panz. Faun. Germ.* lix. 16. *Musca podagrica*, Gmel. *Ed. Syst. Nat.* v. 2873, 354. *Musca*, &c., Geoff. *Ins.* 517, 45? *M. elongata*, Schrank, *Faun. Boic.* iii. 2414. *M. ichneumonea*, Schrank, *Ins. Austr.* 91. *M. molio*, Harr. *Ex.* 111, pl. 33, f. 43. (mas.) *M. tenur*, Harr. *Ex.* 112, pl. 33, f. 59. *Merodon podagricus*, Fabr. *Syst. Antl.* 198, 10. *Milesia podagrica*, Latr. *Gen. Crust.* iv. 331. *Fall. Syrph.* 13, 11.

a. England.

b. France.

c. ———? From Mr. Children's collection.

ASCIA globosa, n. s., fem. *Nigro-ænea, antennis fulvis basi nigris, pedibus fulvis femoribus nigris, tibiis posticis piceis, alis limpidis.*

Body brassy black, clothed with hoary down: eyes dark red: feelers dark tawny; first joint black: abdomen much broader than the chest, and nearly twice its length: legs tawny; hips and thighs

black, the latter tawny at the base and at the tips; hind shanks piceous: wings colourless; wing-ribs ferruginous; veins piceous; poisers pale yellow. Length of the body 2 lines; of the wings 4 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*ASCIA* Anthermus, n. s., fem. *Ferruginea, capite nigro maculato, thoracis vittis duabus fuscis, antennis pedibusque fulvis, alis limpidis, ad costam fuscis fuscoque oblique subfasciatis.*

Body ferruginous: head as broad as the chest; a black spot in front: eyes red; facets of moderate size: feelers tawny; first joint linear; second joint club-shaped, about half the length of the first; third joint spindle-shaped, much longer than the second: chest adorned with two broad dark brown stripes: abdomen rather more than twice the length of the chest, very slender for half the length, broader from thence to the tip: legs tawny, slightly covered with down: wings colourless, long and broad, brown along the fore border, whence a short and very oblique band proceeds outwards into the disk; wing-ribs tawny; veins piceous; poisers tawny. Length of the body 5—5½ lines; of the wings 11—12 lines.

a. Para. Presented by J. P. George Smith, Esq.

b. Para. Presented by Reginald Graham, Esq.

### SPHEGINA, Meigen.

*SPHEGINA* clunipes, Meig. *Dipt.* iii. 194, 1, pl. 28, f. 5. Macq. *Dipt. Nord.* 17, 1, pl. 1, f. 2. *Hist. Nat. Dipt.* i. 576, 1, pl. 12, f. 21. Zett. *Ins. Lapp.* 581, 1. Zeller, *Ent. Zeit. Stettin.* iv. 302, 1. *Milesia* clunipes, Fall. *Syrph.* 12, 10.

a. England. Presented by F. Walker, Esq.

### BACCHA, Fabricius.

*BACCHA* elongata, Fabr. *Syst. Antl.* 200, 6. Fall. *Syrph.* 14, 1. Meig. *Dipt.* iii. 197, 1, pl. 28, f. 13. Macq. *Hist. Nat. Dipt.* i. 577, 1, pl. 12, f. 22. Zett. *Ins. Lapp.* 581, 1. Curt. *Brit. Ent.* 737, 1. *Syrphus* elongatus, Fabr. *Sp. Ins.* ii. 430, 42. *Ent. Syst.* iv. 199, 76. *Musca* elongata, Gmel. *Ed. Syst. Nat.* v. 2873, 353.

a. England.

b. France.

*BACCHA obscuripennis*, Meig. *Dipt.* iii. 199, 4. *Curt. Brit. Ent.* 737, 4. *Musca perexilis*, Harr. *Ex.* 81, pl. 24, f. 24.

a. England.

*BACCHA tabida*, Meig. *Dipt.* iii. 199, 5. *Macq. Hist. Nat. Dipt.* i. 578, 3. *Curt. Brit. Ent.* 737, 5.

a. England.

b. France.

*BACCHA varia*, n. s., mas. et fem. *Ænea*, capite scutellique lateribus flavis, abdominis basi maculisque quatuor flavis, antennis ferrugineis, pedibus piceis, femoribus æneis, tibiis basi fulvis, alis subcinereis.

Body brassy: head yellow, with a brassy stripe in front: eyes red: mouth piceous: feelers ferruginous; scutcheon yellow; its disk brassy: abdomen yellow at the base, and adorned with two yellow spots on each side: legs piceous; hips and thighs brassy; shanks tawny towards the base: wings slightly gray, sometimes brown along the fore borders; wing-ribs and brands piceous; veins black; poisers yellow. Length of the body 3 lines; of the wings 5 lines.

a. ——— ? From Mr. Children's collection.

*BACCHA picta*, Wied. *Auss. Zweif.* ii. 93, 2.

a. Congo. Presented by Sir J. Richardson.

*BACCHA aurinota*, Harris, *Catalogue Ins. Massachusetts. Æneus*, thorace postico scutelloque aureis, pectore cano, abdomine maculis sex fulvis ornato, pedibus fulvis, metapedibus piceis, alis limpidis, fusco bimaculatis.

Head wanting: chest bronze, clothed with short pale hairs; hind part and scutcheon gold-colour: breast covered with hoary bloom: abdomen more than thrice the length of the chest, adorned with three tawny spots on each side: legs tawny; hind legs piceous, tawny on the tips of their thighs and on the base of their shanks: wings colourless; a blackish brown spot close to the base, and another much larger irregular one of the same colour beyond the middle of the fore border; this spot is narrower and paler in the disk than along the fore border, where there is a little colourless interval; wing-ribs piceous; veins black, piceous towards the base; poisers yellow, with piceous knobs. Length of the body 6 lines; of the wings 9 lines.

a. United States. Presented by the Entomological Club.

**BACCHA** Babista, n. s., mas. *Ænea, fronte flavo, scutello ferrugineo, abdominis basi maculis quatuor apiceque ferrugineis, antennis pedibusque fulvis, femoribus posticis piceis, alis limpidis ad costam fuscis.*

Body coppery: head a little broader than the chest, yellow, with a steel blue stripe in front, clothed behind and beneath with white down: eyes red; facets small: mouth piceous: feelers tawny: chest clothed with short tawny hairs; breast steel blue, clothed with short hoary hairs; scutcheon ferruginous: abdomen adorned with a ferruginous band at the base, a ferruginous spot on each side in the middle, and with another pair of spots nearer the tip, which is dark ferruginous: legs tawny; hips steel blue; hind thighs mostly piceous: wings colourless, tinged with brown along the fore border from the base to the brand, which is dark brown; wing-ribs ferruginous; veins black; poisers tawny. Length of the body 5 lines; of the wings 8 lines.

a. Georgia. From Mr. Abbot's collection.

**BACCHA** Tarchetius, n. s., fem. *Nigro-cyanea, fronte thoracisque maculis duabus flavis, abdomine maculis sex apiceque fulvis, antennis pedibusque fulvis, pedibus posticis fuscis, alis subcinereis ad costam fuscis.*

Body bluish black: head a little broader than the chest, white, and beset with short white hairs behind; front yellow, with a black stripe, which is shortened towards the mouth: eyes piceous, bright red in front: mouth and feelers tawny: abdomen a little more than twice the length of the chest, broader towards the base than that of *B. Babista*, adorned with three tawny spots on each side; tip also tawny: legs tawny; hind legs brown, their thighs and shanks tawny towards the base: wings slightly gray, dark brown along the fore borders for the whole length and for full one-third of the breadth; wing-ribs piceous; veins black; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. Georgia. From Mr. Abbot's collection.

**BACCHA** Amphithoe, n. s. *Flava, thoracis disco æneo, abdomine ferrugineo, apicem versus æneo flavoque fasciato, pedibus flavis, alis limpidis costæ basi fulvis apice fuscis.*

Head wanting: chest and breast yellow; disk of the chest bronze: abdomen ferruginous, bronze, and adorned with a yellow band towards the tip: legs yellow: wings colourless, tawny along the fore borders for half their length, brown thence to the tips:



wing-ribs tawny; veins piceous; poisers tawny. Length of the body 3 ? lines; of the wings 7 lines.

a, East Indies. From Archdeacon Clerk's collection.

### EUMERUS, Meigen.

EUMERUS grandis, Meig. *Dipt.* iii. 203, 1, pl. 28, f. 14, 18. *Macq. Hist. Nat. Dipt.* i. 526, 1.

a. ——— ? From Mr. Children's collection.

EUMERUS tricolor, Meig. *Dipt.* iii. 204, 2. *Macq. Hist. Nat. Dipt.* i. 526, 2.

a. England.

b. ——— ?

EUMERUS ruficornis, Meig. *Dipt.* iii. 206, 5. *Zett. Dipt. Scand.* ii. 865, 5. *Loew, Ent. Stett.* ix. 1848, 127, 13. *Curt. Brit. Ent.* 749, 2.

a. England.

b. ——— ? From Mr. Children's collection.

EUMERUS grandicornis, Meig. *Dipt.* iii. 207, 8. *Macq. Hist. Nat. Dipt.* i. 527, 7.

a. England.

EUMERUS lunulatus, Meig. *Dipt.* iii. 209, 11. *Loew, Ent. Stett.* ix. 1848, 121, 9. *E. funeralis*, Meig. *Dipt.* iii. 208, 9. *Macq. Hist. Nat. Dipt.* i. 527, 8. *Loew, Isis*, 1840, 561, 3. *Zett. Dipt. Scand.* ii. 867, 7. *E. planifrons*, Meig. *Dipt.* iii. 209, 10. *E. æneus*, *Macq. Dipt. Nord. Syrph.* 121, 8. *Hist. Nat. Dipt.* i. 528, 11. *Meig. Dipt.* vii. 112, 19. *Curt. Brit. Ent.* 749, 4. *Ruricola*, *Gard. Chron.* 1842, 252. *Bouché, Ent. Zeit. Stett.* viii. 145, 17. *E. Selene*, *Loew, Isis*, 1840, 561, 6. *E. grandicornis*, Meig. *Dipt.* ii. 208, 8. *Macq. Hist. Nat. Dipt.* i. 527, 7. *Zett. Dipt. Scand.* ii. 866, 6. *E. strigatus* ? *Zett. Dipt. Scand.* ii. 864, 3. *Pipeza strigata*, *Fall. Dipt. Suec. Syrph.* 61, 8.

a. England.

b. ——— ? From Mr. Children's collection.

**EUMERUS sabulonum**, Zett. *Dipt. Scand.* ii. 863, 2. Loew, *Ent. Stett.* ix. 1848, 114, 4. *E. tricolor*? Meig. *Dipt.* iii. 204, 2. *E. strigatus*? Meig. *Dipt.* iii. 207, 7. Curt. *Brit. Ent.* 749, 3. *E. Silene*? Meig. *Dipt.* iii. 210, 12. Curt. *Brit. Ent.* 749, 6. *E. rubriventris*, Macq. *Dipt. Nord. Syrph.* 119, 2. *Hist. Nat. Dipt.* i. 528, 10. Meig. *Dipt.* vii. 112, 18. *Syrphus tricolor*? Fabr. *Ent. Syst. Suppl.* 563. *Eristalis tricolor*? Fabr. *Syst. Antl.* 244, 52. *Pipiza sabulonum*, Fall. *Dipt. Suec. Syrph.* 61, 7.

a. ———? From Mr. Children's collection.

**EUMERUS obliquus**, Wied. *Auss. Zweif.* ii. 112, 3. *Milesia obliqua*, Fabr. *Syst. Antl.* 194, 28.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**EUMERUS Aquilius**, n. s., mas. *Æneo-viridis, thoracis fasciis quatuor cinereis, abdominis fasciis tribus interruptis arcuatis cinereis, antennis nigris, pedibus viridi-aneis, tarsis piceis, alis nigro cinereis.*

Body brassy green: head beset on the crown with a few black hairs, covered with white silky down, and clothed with white hairs in front: mouth and feelers black; third joint of the latter covered with hoary bloom: eyes dark red; facets very large in the middle of the fore part: chest clothed with short tawny hairs, adorned with four gray stripes: breast clothed with short hoary hairs: abdomen adorned with three interrupted arched gray bands, clothed with short tawny hairs, and at the tip beneath with short black hairs: legs brassy green, clothed with short pale hairs; feet pitchy, their soles and the knees ferruginous: wings dark gray; wing-ribs pitchy; veins black; poisers ferruginous. Length of the body 4 lines; of the wings 6 lines.

a. ———? From Mr. Children's collection.

**EUMERUS porcus**, Barnston, MSS., fem. *Niger, thorace cinereo quadrivittato, abdomine maculis nigris nitentibus canisque ornato, antennis piceis, pedibus nigris, genubus tarsisque ferrugineis, alis subcinereis.*

Body black, clothed with black hairs: head covered with white bloom, and clothed with white hairs beneath, pale yellow in front and around the base of the feelers: mouth black: feelers pitchy; bristle black: eyes brassy black; all the facets small: chest adorned with four gray stripes: breast tinged with gray: abdomen elliptical, deep velvet-like black, longer and a little broader than the chest; each segment adorned with a triangular black shining spot

in the middle, and with a hoary spot on each side; hind borders shining: legs black; knees and feet ferruginous, the latter pitchy towards the tips; foot-cushions and claws tawny; tips of the claws black; hind thighs thick, unarmed; hind shanks curved: wings pale gray; wing-ribs and veins black; veins pitchy towards the base; poisers yellow. Length of the body 3—4 lines; of the wings 6—7 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRITTA, St. Fargeau.*

*SYRITTA pipiens*, *St. Farg. et Serv. Ency. Macq. Dipt. Nord.* 124, 1. *Hist. Nat. Dipt.* i. 525, 1, pl. 12, f. 3. *Musca pipiens*, *Linn. Syst. Nat.* ii. 988. *Faun. Suec.* 1822. *Gmel. Ed. Syst. Nat.* v. 2877, 56. *Deg. Ins.* vi. 53, 11, pl. 7, f. 8, 9. *Schränk, Faun. Boic.* iii. 2411. *Ins. Austr.* 915. *Harr. Ex.* 109, pl. 32, f. 48. *Berk. Syn.* i. 164. *Stew. El.* 266. *Turt.* iii. 652. *Musca*, &c., *Geoff. Ins.* ii. 519, 49. *Schell. Gen. Mouch.* pl. 10, f. 3. *Syrphus pipiens*, *Fabr. Sp. Ins.* ii. 435, 65. *Ent. Syst.* iv. 310, 119. *Panz. Faun. Germ.* xxxii. 20. *Milesia pipiens*, *Fabr. Syst. Antl.* 194, 27. *Latr. Gen. Crust.* iv. 331. *Cons. Gén.* 443. *Fall. Syrph.* 12, 9. *Xylota pipiens*, *Meig. Dipt.* iii. 213, 1. *Coprina pipiens*, *Zett. Ins. Lapp.* 584, 1.

- a. England.  
b. France.  
c. ———? From Mr. Children's collection.

*SYRITTA proxima*. *Xylota proxima*, *Say, Amer. Ent. pl.* 8. *Wied. Auss. Zweif.* ii. 102, 9.

- a. Nova Scotia. From Lieut. Redman's collection.  
b. Ohio. Presented by the Entomological Club.  
c. Trenton Falls. Presented by E. Doubleday, Esq.  
d. Georgia. From Mr. Abbot's collection.  
e. North America. From Mr. Children's collection.

*SYRITTA indica*. *Eumerus indicus*, *Wied. Anal. Ent.* 33, 49. *Xylota indica*? *Wied. Auss. Zweif.* ii. 103, 10.

- a. Isle of France.

*SYRITTA fasciata*. *Xylota fasciata*, *Wied. Auss. Zweif.* ii. 103, 11.

- u. Sierra Leone. Presented by the Rev. D. F. Morgan.

**SYRITTA Bulbus**, n. s. *Flavo-albida, thoracis disco nigro, antennis pedibusque flavis, femoribus posticis apice tibiisque posticis basi fuscis, alis limpidis.*

Head whitish: mouth black, brown towards the tip: feelers yellow, bristle black: eyes coppery; facets very small, except in the fore part, where they are large: chest black, yellow on each side in front: breast yellowish white: abdomen wanting: legs yellow; hips and hind shanks towards the base, and tips of hind thighs brown: wings colourless; wing-ribs and poisers tawny; veins black. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**SYRITTA decora**, n. s., fem. *Nigra, fulvo-varia, thorace fusco, antennis ferrugineis piceo vittatis, pedibus ferrugineis, femoribus posticis nigro-aneis, tibiis posticis piceis, alis fusco fulvis.*

Head black, covered with tawny down, tawny about the mouth, which is pitchy: eyes convex, red, slightly bronzed; all the facets very small: feelers ferruginous, with a pitchy streak along the upper side; bristle black: chest rich brown, adorned on each side with three tawny bands, which extend to the breast and there become white; behind them and before the scutcheon there is a tawny band across the back: abdomen black, linear, a little narrower and much longer than the chest, adorned on each side with three tawny spots; first pair of spots very large; second pair of moderate size; third pair very small; borders of the segments shining: legs ferruginous; hips black; feet brown; claws and foot-cushions tawny; tips of claws black; hind thighs thick, brassy black, armed beneath with teeth; hind shanks curved, pitchy, each adorned with a broad ferruginous band: wings brownish tawny; wing-ribs pitchy; veins black; poisers yellow. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. ——— ?

#### **XYLOTA, Meigen.**

**XYLOTA femorata**, Meig. *Dipt.* iii. 216, 6. *Zett. Ins. Lapp.* 586, 7. *Musca femorata*, Linn. *Syst. Nat.* ii. 998. *Faun. Suec.* 1824. *Gmel. Ed. Syst. Nat.* v. 2877, 58. *Turt.* iii. 645. *Milesia femorata*, Fall. *Syrph.* 11, 8.

a. ——— ? From Mr. Children's collection.

b. ——— ?

**XYLOTA hæmatodes**, Say, *Amer. Ent. pl.* 8. *Wied. Auss. Zweif.* ii. 99, 3. *Macq. Dipt. Exot.* ii. 73, 1, *pl.* 13, *f.* 4. *Milesia hæmatodes*, Fabr. *Syst. Antl.* 193, 21.

a. Nova Scotia. Presented by the Entomological Club.

b. Georgia. From Lieut. Redman's collection.

*XYLOTA nigra*, *Fabr. Syst. Antl.* 192, 16. *Latr. Gen. Crust.* iv. 331. *Fall. Syrph.* 11, 7. *Meig. Dipt.* iii. 221, 14. *Macq. Hist. Nat. Dipt.* i. 522, 7. *Syrphus niger*, *Fabr. Ent. Syst.* iv. 295, 63.

a. ——— ?

*XYLOTA abiens*, *Wied. Meig. Dipt.* iii. 218, 9.

a. ——— ?

*XYLOTA bifasciata*, *Meig. Dipt.* iii. 219, 10. *Zett. Ins. Lapp.* 585, 2. *Curt. Brit. Ent.* 425.

a. ——— ?

*XYLOTA Dascon*, n. s., mas. et fem. *Æneus*, abdomine fulvo quadrimaculato, capite abdomineque postico chalybeis, ventre, antennis pedibusque fulvis, tibiis tarsisque anterioribus flavis, pedibus posticis ferrugineis, alis limpidis.

Head steel blue, clothed behind with tawny hairs, covered in front with whitish down: mouth pitchy: eyes red; facets rather large in front: feelers tawny: chest and breast coppery, thinly clothed with short tawny hairs: abdomen coppery, clothed with short whitish hairs, steel blue towards the tip and sometimes on each side, adorned with two large square tawny spots on each side; underside tawny: legs tawny; four front shanks and feet yellow, tips of the latter tawny; hind legs ferruginous, their thighs with a coppery tinge, their shanks tawny at the base: wings colourless; wing-ribs and poisers tawny; veins pitchy, tawny towards the base. Length of the body 4 lines; of the wings 8 lines.

Nearly allied to *X. bifasciata*, but the cross-veins are more upright.

a. ——— ?

*XYLOTA Baton*, n. s., fem. *Ænea*, abdominis segmento secundo fulvo bimaculato, antennis piceis, pedibus æneis, tibiis tarsisque anterioribus fulvis, tibiis posticis nigris, tarsis posticis piceis, alis subcinereis.

*X. ejuncida*? *Say, Amer. Ent. pl.* 8. *Wied. Auss. Zweif.* ii. 100, 5. *X. quadrata*? *Say, Amer. Ent. pl.* 8. *Wied. Auss. Zweif.* ii. 101, 6. *X. metallica*? *Wied. Auss. Zweif.* ii. 102, 8.

Body brassy, thinly clothed with short pale hairs: head full as broad as the chest, covered with hoary bloom, clothed behind and beneath with short white hairs: eyes dark red; facets small: mouth and feelers piceous: second segment of the abdomen adorned with a

round tawny spot on each side : legs clothed with tawny down ; hips and thighs brassy ; shanks and feet tawny, the former with a slight piceous tinge ; hind shanks black, tawny at the base ; hind feet piceous ; claws black ; foot-cushions ferruginous : wings slightly gray, with a brown tinge along the fore borders ; wing-ribs pitchy ; veins black, ferruginous towards the base ; cross-veins slightly clouded with brown ; poisers tawny. Length of the body  $4\frac{1}{2}$  lines ; of the wings 8 lines.

- a. Florida. Presented by E. Doubleday, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.
- c. ———? From Mr. Children's collection.

*XYLOTA nemorum*, Meig. *Dipt.* iii. 219, 11. *Macq. Hist. Nat. Dipt.* i. 521, 3. *Zett. Ins. Dipt.* 585, 3. *Milesia nemorum*, Fabr. *Syst. Antl.* 192, 17. *M. ignava*, Fall. *Syrph.* 11, 6.

- a. France.

*XYLOTA segnis*, Meig. *Dipt.* iii. 220, 12. *Macq. Dipt. Nord.* 128, 1, pl. 2, f. 8. *Hist. Nat. Dipt.* i. 521, 5. *Zett. Ins. Lapp.* 585, 1. *Musca segnis*, Linn. *Syst. Nat.* ii. 988. *Faun. Suec.* 1823, Gmel. *Ed. Syst. Nat.* v. 2877, 57. *Deg. Ins.* vi. 54, 12. *Schrank, Faun. Boic.* iii. 2412. *Ins. Austr.* 914. *Stew. El.* ii. 266. *Turt.* iii. 644. *M. Brassicarizæ*, Don. *Brit. Ins.* v. 17, pl. 151, f. 1. *M. longisco*, Harr. *Ex.* 83, pl. 24, f. 30. *Musca*, &c., Geoff. *Ins.* ii. 526, 62. *Scheff. Icon.* pl. 107, f. 7. *Syrphus segnis*, Fabr. *Sp. Ins.* ii. 428, 36. *Ent. Syst.* iv. 295, 61. *Panz. Faun. Germ.* lx. 3. *Milesia segnis*, Fabr. *Syst. Antl.* 191, 14. *Latr. Gen. Crust.* iv. 331. *Fall. Syrph.* 10, 5.

- a. England.
- b. France. Presented by F. Walker, Esq.
- c. France.
- d. ———? From Mr. Children's collection.

*XYLOTA ignava*, Meig. *Dipt.* iii. 221, 13. *Macq. Hist. Nat. Dipt.* i. 522, 6.

- a. France.
- b. ———? From Mr. Children's collection.

*XYLOTA lenta*, Meig. *Dipt.* iii. 222, 15. *Macq. Hist. Nat. Dipt.* i. 522, 8. *Zett. Ins. Lapp.* 586, 8. *Musca nigra*, Schrank, *Faun. Boic.* iii. 242, 9. *Syrphus niger*, Panz. *Faun. Germ.* lx. 5.

- a. ———?
- b. ———? From Mr. Children's collection.

**XYLOTA** Corbulo, n. s., fem. *Ænea, capite cyaneo, abdominis maculis quatuor ventreeque fulvis, antennis nigris, pedibus æneis, tarsis fulvis, tarsis posticis tibiisque piceis, alis cinereis.*

Body brassy, clothed with short tawny hairs: head dark blue, a little broader than the chest, clothed behind and beneath with white down, and adorned with a patch of white down on each side of the front: eyes reddish bronze; facets small: mouth and feelers black: sides of abdomen covered with white down; its back adorned with four tawny spots; underside mostly tawny: legs clothed with short tawny hairs; hips and thighs brassy; shanks piceous, tawny at the base; feet tawny; hind feet piceous; claws black, tawny at the base; foot-cushions tawny: wings gray; wing-ribs and veins black, the latter piceous towards the base; poisers tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. ———? From Mr. Children's collection.

**XYLOTA** Libo, n. s., fem. *Æneo-purpurea, abdomine rufo, antennis nigris basi ferrugineis, pedibus æneis, tibiis piceis, tarsis fulvis, alis subfuscis.*

Body brassy purple, thinly clothed with tawny hairs: head and fore part of the chest covered with tawny bloom: eyes dark red, piceous in front; facets small: mouth black: feelers black; first joint ferruginous; bristle tawny: abdomen dark red, slightly pitchy on the sides and hind borders of the segments: legs thinly clothed with short hoary hairs; hips and thighs brassy; shanks piceous, tawny at the base; feet tawny, piceous at the tips; hind shanks darker than the other shanks, ferruginous at the base; claws and foot-cushions tawny, tips of the former black: wings slightly brown, darker along the fore borders; wing-ribs piceous; veins black, dark ferruginous towards the base; cross-veins clouded with brown; poisers tawny. Length of the body 5 lines; of the wings 8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**XYLOTA** Anthreas, n. s., mas. *Ænea, fronte ventreeque fulvis, abdominis lateribus chalybeo maculatis, antennis fuscis, pedibus æneis, tibiis anterioribus piceis, tarsis fulvis, alis subcinereis.*

Body brassy, clothed with tawny down: head tawny in front: eyes piceous; facets small: mouth black: feelers brown; bristle black: sides of abdominal segments adorned with large steel blue spots; underside tawny, except the tip: legs bronze black, clothed with short tawny hairs; shanks yellow at the base; four front shanks piceous, tawny at the base and at the tips: feet tawny:

wings slightly gray; wing-ribs piceous; veins black, ferruginous towards the base; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*XYLOTA flavifrons*, Barnston's MSS., mas. et fem. *Nigro-ænea*, abdominis lateribus chalybeo maculatis, antennis ferrugineis, pedibus nigro-æneis, tibiis tarsisque nonnunquam fulvis, alis subfuscis.

*Male*.—Body black, clothed with short tawny hairs: head as broad as the chest, covered with hoary bloom, clothed behind and beneath with short white hairs, beset behind and on the crown with longer black hairs: eyes dark red; facets small; mouth black; feelers dark ferruginous, black at the base: abdomen linear, a little narrower than the chest, and full thrice its length; segments adorned with large steel-blue spots on each side: legs brassy black, clothed with short tawny hairs; shanks and feet black, tawny at the base; foot-cushions tawny: wings slightly brown; wing-ribs and veins black, the latter ferruginous towards the base; poisers yellow. *Female*.—Shanks and feet black; knees ferruginous. Length of the body 4—5 lines; of the wings 7—8 lines.

*Var. β. Male*. Shanks and feet tawny, with black tips.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*XYLOTA communis*, Barnston's MSS., mas. et fem. *Nigro-ænea*, abdomine nigro, lateribus æneo maculatis, antennis pedibusque nigris, tibiis basi fulvis, alis cinereis.

Body brassy black: head as broad as the chest, covered with a slight hoary bloom: mouth and feelers black: eyes dark red: abdomen black; sides of the segments adorned with large brassy spots: legs black; shanks tawny at the base: wings gray, with a slight brown mark on the middle of the fore border. Length of the body  $4\frac{1}{2}$ — $5\frac{1}{2}$  lines; of the wings 10—12 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*XYLOTA Æpalus*, ~~mas.~~ mas. *Ænea*, fronte scutelloque fulvis, abdomine nigro-æneo, antennis ferrugineis, pedibus fulvis, alis subcinereis ad costam fulvis.

Body brassy, thickly covered with tawny down; head a little broader than the chest; front tawny: eyes dark red; facets small:



mouth piceous: feelers ferruginous: scutcheon tawny: abdomen brassy black, a little narrower than the chest and less than twice its length: legs bright tawny, clothed with short tawny hairs; a darker streak along each thigh; shanks paler towards the base; tips of feet piceous: wings tawny along the fore borders on half the breadth, slightly gray along the hind borders; wing-ribs and veins piceous, the latter ferruginous towards the base; poisers tawny. Length of the body 5 lines; of the wings  $9\frac{1}{2}$  lines.

a. Georgia. From Mr. Abbot's collection.

*XYLOTA laphriæformis*, n. s. *Ænea, fronte ferrugineo, abdominis lateribus basi fulvis, antennis piceis, pedibus ferrugineis, femoribus basi fulvis, femoribus posticis et tibiis apice tarsisque piceis, alis subfulvis.*

Body brassy, thickly clothed with tawny hairs: head partly covered with tawny down, ferruginous in front: mouth pitchy; feelers pitchy, covered with whitish down, tawny at the base: eyes black; all the facets very small: abdomen elliptical, a little longer and broader than the chest, tawny on each side at the base: legs ferruginous, clothed with tawny hairs and down; thighs tawny towards the base; hind thighs covered beneath with short black spines, pitchy above towards the tips; shanks pitchy towards the tips; feet pitchy; claws and foot-cushions tawny; tips of claws black: wings slightly tawny; wing-ribs and veins ferruginous, the latter pitchy towards the wings; cross-veins clouded with brown; poisers yellow. Length of the body 5 lines; of the wings 10 lines.

a. ———? From Mr. Children's collection.

*XYLOTA Oarus*, n. s., mas. *Ænea, antennis ferrugineis, pedibus æneis, tarsis fulvis, tibiis anterioribus piceo-ferrugineis, larsis posticis ferrugineis, alis subcinereis.*

Body brassy, very thickly clothed with pale tawny hairs: head a little narrower than the chest; front adorned with white shining down: eyes dark red; facets small: mouth piceous: feelers ferruginous; bristle tawny: abdomen a little narrower than the chest, less than twice its length: legs brassy, thickly clothed with pale tawny hairs; foot-cushions and claws tawny, the latter with black tips; pitchy streaks on the ferruginous shanks of the four front legs, whose knees and feet are tawny; hind knees and hind feet ferruginous: wings slightly gray; wing-ribs piceous; veins ferruginous, piceous towards the tips; poisers pale tawny. Length of the body 4 lines; of the wings 8 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

**XYLOTA** Badia, n. s., fem. *Ænea, abdomine nigro, basi lateribusque anticis flavis, antennis piceis basi fulvis, pedibus piceis fulvo variis, alis limpidis.*

Body brassy: head covered with pale tawny down, clothed behind with hoary hairs: mouth tawny: feelers pitchy, tawny at the base: eyes dark red: chest thickly clothed with long, pale tawny hairs: abdomen black, clothed with short hoary hairs, yellow on each side of the base, and thence in two narrow stripes beyond the middle: legs pitchy; thighs pale yellow towards the base; knees and extremities of shanks yellow; feet tawny; hind feet pitchy, tawny at the base: wings colourless; wing-ribs and poisers yellow; veins brown, yellow towards the base. Length of the body 4 lines; of the wings 8 lines.

a. New York. Presented by the Entomological Club.

**XYLOTA** Æthusa, n. s., fem. *Æneo-viridis, capite cyaneo, thoracis lateribus fulvescentibus, scutello abdominisque basi fulvis, antennis pedibusque fulvis, tarsis necnon femorum posteriorum tibi-  
arumque apicibus piceis, alis subcinereis ad costam fulvis.*

Head blue, covered with white silky down: feelers bright tawny: eyes red: chest brassy green, somewhat tawny on each side; breast grayish; scutcheon tawny: abdomen tawny towards the base; hind part wanting: legs tawny; feet, tips of the shanks and of the hind thighs pitchy: wings slightly gray, ferruginous from the base to the middle for full half the breadth from the fore borders; wing-ribs ferruginous; veins black, ferruginous towards the base. Length of the body 5 lines; of the wings 10 lines.

a. East Indies. From Archdeacon Clerk's collection.

**XYLOTA** sylvarum, Meig. Dipt. iii. 223, 17. Macq. Hist. Nat. Dipt. i. 520, 1. Musca sylvarum, Linn. Syst. Nat. ii. 985. Faun. Suec. 1804. Gmel. Ed. Syst. Nat. v. 2871, 37. Syrphus sylvarum, Fabr. Sp. Ins. ii. 427, 27. Ent. Syst. iv. 291. 48. *S. impiger*, Panz. Faun. Germ. xiv. 21. Milesia sylvarum, Fabr. Syst. Antl. 191, 13. Latr. Gen. Crust. iv. 332. Fall. Syrph. 10, 4. Musca fucatus, Harr. Ex. 83, pl. 24, f. 29.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*XYLOTA dibaphus*, n. s. *Nigra, pilis fulvis hirta, thoracis margine antico lateribus scutelloque rufis, ventre piceo, pedibus rufis, alis nigro-fuscis.*

Body black, thinly clothed with short tawny hairs: head wanting: chest dull; sides and fore part of chest dark red: scutcheon dark red: abdomen shining, nearly oval, longer and a little broader than the chest; under side pitchy: legs red, clothed with short tawny hairs; foot-cushions tawny; tips of claws black: wings dark brown, adorned with purple lustre, pale gray along the hind borders; wing-ribs pitchy; veins black, pitchy towards the base; poisers tawny, with pale yellow knobs; scales very large, bright pale yellow. Length of the body 6 lines; of the wings 11 lines.

a. ——— ?

*XYLOTA purpurea*, n. s. *Purpurea, tibiis tarsisque nigris, femoribus posticis crassis, alis nigro-fuscis purpureo nitentibus.*

Head wanting: chest and abdomen purple, clothed with short black hairs: legs black, clothed with short hoary hairs; hips and thighs purplish black; hind thighs thick: wings blackish brown, tinged with purple, paler along the hind borders and at the tips; wing-ribs and veins black; poisers pitchy. Length of the body 6 lines; of the wings 10 lines.

a. ——— ? Presented by the Entomological Club.

#### MILESIA, Latreille.

*MILESIA gigas*, Guérin, *Belanger Voy. Ind. Orient.* 508, pl. 4, f. 7. *Macq. Hist. Nat. Dipt.* i. 533, 4. *Dipt. Exot.* ii. 80, 3, pl. 15, f. 3.

a. Java.

*MILESIA ornata*, Fabr. *Syst. Antl.* 188, 5. *Wied. Auss. Zweif.* ii. 106, 4. *Macq. Dipt. Exot.* ii. 81, 4, pl. 15, f. 4. *Musca virginensis*, Drury, *Illustr.* ii. pl. 37, f. 6. *Syrphus trifasciatus*, Hausm. *Ent. Bemerk.* ii. 67, 10.

a. North America.

*MILESIA Cœnina*, n. s., fem. *Flava nigro varia, capite scutelloque fulvis, pectore nigro, lateribus flavo trimaculatis, abdomine fulvo, vitta fusca, segmentorum marginibus anticis flavis, antennis pedibusque fulvis, tibiis posticis subtus fusco fasciatis, alis subcinereis ad costam flavescens.*

Head tawny, yellow towards the mouth, which is pitchy: feelers awny; bristle darker towards the tip: eyes dark red, coppery in

front; facets all very small: chest yellow, adorned with a black stripe and with two square black spots in front, and with two obconical black marks behind; scutcheon tawny; breast black, with three yellow spots on each side: abdomen tawny; fore borders of the segments yellow; a brown stripe along the back, tapering from the base to the tip, and slightly interrupted on each segment: legs tawny, clothed with short black hairs; a short spine beneath near the tip of each hind thigh; a brown band beneath each hind shank: wings slightly gray, tinged with yellow along the fore borders, and having a small pale brown spot near the tip of the fore border; wing-ribs ferruginous; veins and poisers tawny. Length of the body 9—10 lines; of the wings 17—18 lines.

a. ———?

*MILESIA crabroniformis*, *Fabr. Syst. Antl.* 187, 1. *Latr. Gen. Crust.* iv. 332. *Meig. Dipt.* iii. 227, 1. *Macq. Hist. Nat. Dipt.* i. 532, 1, *pl.* 12, *f.* 9. *Syrphus crabroniformis*, *Fabr. Sp. Ins.* ii. 430, 44. *Ent. Syst.* iv. 299, 78. *Musca crabroniformis*, *Gmel. Ed. Syst. Nat.* v. 2873, 355.

a. ———? From Mr. Children's collection.

b. Madeira.

——— Var.? Fem. *Ferruginea, capite fulvo fronte flavo, thorace ferrugineo flavo vario fuscoque vittato, abdomine fulvo, basi vitta suturisque fuscis, segmentorum marginibus anticis flavis, antennis rufis, pedibus ferrugineis, tibiis flavis, metatibiis fulvo fasciatis, alis subcinereis ad costam subfulvis.*

Head tawny, yellow in front: mouth black: feelers pale red; third joint nearly round; bristle pitchy, pale red towards the base, about thrice the length of the third joint; eyes bronzed; facets small; those on the fore part of the crown larger: chest ferruginous, yellow in front, clothed with short tawny hairs, adorned with a brown stripe in the middle, with a square brown spot on each side of the front, and with a short tapering stripe on each side behind: front dark brown, yellow in front, and adorned with two yellow spots on each side: abdomen tawny, obconical, as broad as the chest and much longer, dark brown at the base and along the sutures of the segments, and having a narrow, interrupted stripe of the same colour along the back, and a yellow band along the fore border of the segments: under side brownish, yellow on the sides of the fore borders of each segment: legs ferruginous, clothed with black hairs; shanks yellowish; a tawny band round each hind shank; foot-cushions yellow; tips of claws black: wings slightly gray, with a tawny tinge along the fore borders; wing-ribs ferruginous; veins

and poisers tawny. Length of the body 10 lines; of the wings 18 lines.

a. ———?

**MILESIA** Lamus, n. s., fem. *Flava nigro varia, abdomine fulvo, basi fasciis vittisque nigris, antennis fulvis, pedibus fulvis, tibiis posticis ferrugineo vittatis, femoribus posticis tarsisque ferrugineis, alis cinereis ad costam fuscis.*

Head yellow, with a black band across the crown, whence a black stripe extends to the base of the feelers; the latter are seated on a brown space, and a tawny stripe proceeds from them to the clypeus: mouth pitchy: feelers bright tawny; third joint nearly round: bristle about thrice its length, pitchy towards the tip: eyes coppery, varied with dark red; facets small: chest yellow, adorned with a square black spot on each side of the front, and with a black stripe along the middle joining a black band between the wings; another black band occupies the fore border of the scutcheon: breast black, yellow in front, and adorned with two yellow spots on each side: abdomen tawny, black at the base, adorned with two slender black bands along the fore borders of the segments; a black stripe extends from the base along half the length of the following segment, and thence passes to the sides of the abdomen by means of two slender slightly curved and retreating bands; another black stripe springs from the black suture of the following segment, but is much shorter than the first, and the bands in which it terminates are nearly straight; the third black suture does not emit a stripe, but from it proceed two black bands, which are oblique and irregular in their course to the sides of the abdomen; underside yellow, with a large black spot in the middle of each segment, and a brown spot on each side of its hind border: legs tawny; feet ferruginous, pitchy towards the tips; claws and foot-cushions yellow, tips of claws black; hind legs ferruginous, their shanks tawny, with ferruginous stripes: wings gray, brown along the fore borders for about half the breadth where the two colours are intermingled; wing-ribs tawny; veins pitchy, ferruginous along the fore border, tawny in the disk; poisers yellow. Length of the body 9 lines; of the wings 16 lines.

Var.  $\beta$ . Scutcheon black, excepting the hind border: wings gray, tinged with brown along the fore border for one-third of the breadth.

a. ———?

**MILEsia** Alcimus, n. s., mas. *\*Nigra flavo fusco et ferrugineo varia, abdomine fulvo fasciis nigris, antennis ferrugineo-fulvis, pedibus fulvis, femoribus posticis basi fusco vittatis, tibiis tarsisque anticis nigris, alis sublimpidis ad costam fuscis.*

Head black, with a short brown stripe on the front: mouth ferruginous: feelers tawny, partly ferruginous; third joint nearly round; bristle about thrice its length, pitchy at the tip: eyes tawny, varied with dark red; facets small, those on the fore part of the crown larger: chest black, adorned with two yellow spots on each side of the front, with a slightly curved tawny stripe on each side behind, and with two oblique ferruginous spots in front of the scutcheon, which is yellow: breast black, with an oblique yellow stripe on each side: abdomen tawny, nearly obconical, a little broader and much longer than the chest, adorned at the base with a broad black band which does not extend to the sides; fore borders of the segments irregularly black; underside black, with the exception of the sides and the hind borders of the segments: legs tawny; hips ferruginous; a short brown stripe on each hind thigh towards the base; fore shanks, fore feet, and tips of claws black: wings nearly colourless, brown along the fore borders for almost half the breadth; the outlines of the two colours are distinct; wing-ribs ferruginous; veins pitchy, ferruginous towards the base; poisers tawny. *Fem.*—Spots on the fore part of the chest tawny: hind borders of the wings slightly gray. Length of the body 7—8 lines; of the wings 12—16 lines.

a. ——— ?

**MILEsia** Bacuntius, n. s., mas. *Ferruginea, thoracis maculis duabus vittisque totidem nigris, abdomine ferrugineo, fulvo nigroque fasciato et maculis nigris ornato, pedibus ferrugineis, femoribus posticis nigris, tibiis basi tarsisque anterioribus fulvis, alis fuscis, cinereo variis fulvoque vittatis.*

Head ferruginous, tawny, and covered with yellowish white down in front: mouth pitchy: feelers pale red; third joint nearly round: eyes nearly black, dark red here and there; facets small, those on the fore part of the crown larger: chest and breast ferruginous: chest with a small black spot in front, another in front of the scutcheon, and two short black stripes on the disk; scutcheon tawny, ferruginous along the fore border; disk of the breast mostly black: abdomen ferruginous; hind borders of the segments tawny; a black band along the fore border of each segment, widening into a triangular black spot on the disk; these spots decrease successively in size from the base of the abdomen: legs ferruginous; four front shanks towards the base and four front feet tawny; hind

thighs very thick, mostly black above; a stout tooth on each hind shank; claws and foot-cushions yellow; tips of claws black: wings brown, gray on the disks of the segments and along the hind borders, and adorned with a pale tawny streak from the base to the middle of the disk; wing-ribs tawny; veins pitchy, partly tawny towards the base; poisers tawny. Length of the body  $5\frac{1}{2}$ — $6\frac{1}{2}$  lines; of the wings 10—13 lines.

a. Georgia. From Mr. Abbot's collection.

*MILEسيا* Ania, n. s., fem. *Nigra, thorace pilis flavis bimaculato et unifasciato, scutello ferrugineo, abdomine rufo fascia postica flavâ, apice ventreeque cyaneis, antennis pedibusque nigris, alis subcinereis ad costam fuscis.*

Head black, adorned with white down: mouth black: feelers black; bristle nearly twice the length of the third joint, which is elliptical: chest and breast black, clothed with black hairs: chest adorned with two spots of bright yellow hairs in front, and with a band of the same behind; scutcheon ferruginous: abdomen deep red, adorned with a yellow band towards the tip, which is bright blue; underside blue: legs black; claws tawny, with black tips; foot-cushions yellow: wings light gray, brown along the fore borders; wing-ribs black; veins black, tawny along the fore borders; poisers pitchy. Length of the body 7 lines; of the wings 14 lines.

a. Jamaica. From Mr. Gosse's collection.

*MILEسيا* cruciger, *Wied. Auss. Zweif.* ii. 105, 2.

a. Florida. Presented by E. Doubleday, Esq.

b. North America. Presented by the Entomological Club.

c. Georgia. From Mr. Abbot's collection.

*MILEسيا* vespiformis, *Fall. Syrph.* 9, 3, iv. 332. *Meig. Dipt.* iii. 232, 5. *Macq. Hist. Nat. Dipt.* i. 533, 5. *Zett. Ins. Lapp.* 587, 1. *Musca vespiformis, Linn. Syst. Nat.* ii. 986. *Faun. Suec.* 1811. *Gmel. Ed. Syst. Nat.* v. 2873, 44. *Deg. Ins.* vi. 54, 13. *Turt.* iii. 647. *Syrphus vespiformis, Fabr. Sp. Ins.* ii. 430, 46. *S. apiformis, Fabr. Ent. Syst.* iv. 300, 80. *Panz. Faun. Germ.* 90, 19.? *Milesia apiformis, Latr. Gen. Crust.* iv. 332.?

a. South of France. Presented by F. Walker, Esq.

b. ———?

c. ———? From Mr. Children's collection.

——— Var. ? *Mas. Nigra, pilisfulvis vestita, antennis pedibusque fulvis, tibiis tarsisque anticis nigris, alis limpidis ad costam fulvis.*

Head black, covered with tawny down, clothed with black hairs on the crown and behind the eyes : mouth black : feelers bright tawny ; bristle pitchy at the tip, about thrice the length of the third joint, which is nearly round : eyes pitchy ; facets small ; those on the fore part of the crown larger : chest and breast black ; the former thinly clothed with tawny hairs : abdomen nearly obconical, black, covered with tawny down, a little broader and much longer than the chest : legs tawny ; fore shanks and fore feet black ; claws black towards the tips : wings colourless, tawny along the fore borders for half the breadth : wing-ribs pitchy ; veins and poisers tawny. Length of the body 7 lines ; of the wings 12 lines.

a. Marseilles.

*MILESIA diopthalma*, *Fabr. Syst. Antl.* 187, 2. *Latr. Gen. Crust.* iv. 332. *Cons. Gén.* 443. *Fall. Syrph.* 8, 2. *Meig. Dipt.* iii. 229, 3. *Macq. Hist. Nat. Dipt.* 532, 2. *Musca diopthalma*, *Linn. Faun. Suec.* 1810. *Gmel. Ed. Syst. Nat.* v. 2873, 43. *Syrphus diopthalmus*, *Fabr. Sp. Ins.* ii. 430, 45. *Ent. Syst.* iv. 300, 79. *Panz. Faun. Germ.* lxxii. 23.

a. Ukraine. Presented by Dr. Dowler.

*MILESIA saltuum*, *Fabr. Syst. Antl.* 189, 9. *Meig. Dipt.* iii. 230, 4. *Syrphus saltuum*, *Fabr. Ent. Syst.* iv. 287, 32.

a. South of France. Presented by F. Walker, Esq.

b. France.

*MILESIA Daochus*, n. s., fem. *Flava nigro varia, abdominis fasciis octo nigris, antennis pedibusque fulvis, femoribus basi flavis, tibiis tarsisque anticis nigris, alis limpidis ad costam fuscis.*

Head yellow, with a black band across the crown embracing the eyelets, whence a black stripe extends to the base of the feelers, and thence to the clypeus ; a black stripe on each side between the clypeus and the corners of the eyes : mouth dark ferruginous : feelers bright tawny ; bristle more than twice the length of the third joint, which is nearly round : eyes dark red ; facets small, those on the fore part of the crown rather larger : chest black, adorned with yellow, which is disposed in two short stripes on the fore part of the back, these stripes are united in front ; on each shoulder there is a yellow spot, behind which there is a short yellow band, and the latter is succeeded by a short yellow stripe ; there are also two yellow spots in front of the scutcheon, which is yellow with a black hind



border: breast black, with two yellow spots on each side: abdomen yellow, nearly oval, broader and much longer than the chest, adorned with eight black bands, which are alternately broad and narrow: legs tawny; thighs yellow towards the base; hind thighs unarmed; fore shanks and fore feet black, the former tawny at the base; tips of claws black: wings colourless, brown along the fore borders for more than one-third of the breadth; wing-ribs and veins tawny; poisers yellow. Length of the body 6 lines; of the wings 11 lines.

a. ——— ?

*MILESIA Canusium*, n. s., fem. *Nigra, thorace maculis duabus flavis, pilis flavis fasciato, abdomine ferrugineo, segmentorum marginibus posticis fulvis, pedibus fulvis, alis limpidis ad costam fulvis.*

Head partly tawny: chest black, adorned in front with two yellow spots, behind which there is a band of yellow hairs just in front of the wings, it is interrupted on the middle of the chest and on that of the breast; in front of the scutcheon there is another band of yellow hairs which do not extend to the breast: abdomen ferruginous, obconical, longer and a little broader than the chest; hind borders of segments tawny: legs tawny; tips of claws black: wings colourless, tawny along the fore borders for nearly half the breadth; wing-ribs black; veins and poisers tawny. Length of the body 5 lines; of the wings 10 lines.

a. Cape of Good Hope.

*MILESIA fulminans*, *Meig. Dipt. iii. 228, 2. pl. 29, f. 8. Macq. Hist. Nat. Dipt. i. 532, 2. Eristalis fulminans, Fabr. Syst. Antl. 241, 39.*

a. South of France. Presented by the Entomological Club.

*MILESIA fallax, Fabr. Syst. Antl. 190, 10. Meig. Dipt. iii. 235, 9. Macq. Hist. Nat. Dipt. i. 534, 8. Musca fallax, Linn. Faun. Suec. 1812. Gmel. Ed. Syst. Nat. v. 2871, 35. Syrphus fallax, Fabr. Sp. Ins. ii. 426, 26. Ent. Syst. iv. 291, 47. S. semirufus, Fabr. Ent. Syst. iv. 301, 85. E. semirufus, Fabr. Syst. Antl. 243, 51. Fall. Syrph. 51, 3.*

a. ——— ? From Mr. Children's collection.

*MILESIA bilineata, White, Zool. Voy. Erebus and Terror. Fem.—Nigra thoracis vittis duabus lateribus pectoreque fulvis, antennis pedibusque nigris, alis cinereis.*

Body black: head as broad as the chest, covered behind and in front with pale tawny down: mouth and feelers black: eyes black;

facets on the fore part of the crown larger than those elsewhere: chest adorned with two pale tawny stripes; its sides and the breast also pale tawny: breast covered with hoary bloom; scutcheon clothed with long tawny hairs: abdomen long-obconical, longer and a little narrower than the chest, clothed beneath with tawny hairs: legs black, clothed with short tawny hairs; hind thighs rather thick, toothed beneath; claws and foot-cushions yellow; tips of claws black: wings dark gray; wing-ribs and veins black; poisers tawny. Length of the body 7 lines; of the wings 10 lines.

a. Port Nicholson, New Zealand. From Mr. Earl's collection.

*MILESIA speciosa*, Fabr. Syst. Antl. 188, 6. Latr. Gen. Crust. iv. 332. Meig. Dipt. iii. 234, 7. Curt. Brit. Ent. pl. 34. Macq. Hist. Nat. Dipt. i. 534, 7. *Syrphus speciosus*, Panz. Faun. Germ. liv. 6.

a. England.

b. France. Presented by F. Walker, Esq.

c. ———?

*MILESIA Amithaon*, n. s., mas. *Nigra, pilis fulvis vestita, abdominis lateribus pilis fulvis nigrisque vestitis, antennis pedibusque nigris, alis cinereis ad costam fuscis fuscoque venosis.*

Body black, shining: head as broad as the chest, clothed with dark tawny hairs: mouth and feelers black; eyes brassy black; facets on the fore part of the crown rather larger than those elsewhere: chest clothed with dark tawny hairs: abdomen nearly linear, as broad as the chest and much longer; sides clothed alternately with black and dark tawny hairs: legs black, clothed with black hairs; foot-cushions and claws dark tawny; tips of claws black; hind thighs very thick, toothed beneath; hind shanks curved, with a knob on the inner side: wings dark gray, brown along the fore borders and on the sides of the veins of the disk; wing-ribs and veins black, some of the latter ferruginous towards the base; poisers ferruginous. Length of the body  $7\frac{1}{2}$  lines; of the wings 15 lines.

a. North Carolina.

*MILESIA Bubulcus*, n. s., mas. *Nigro-fusca, pilis fulvis vestita, abdominis apice pilis nigris hirto, antennis pedibusque nigris, tibiis tarsisque anterioribus ferrugineis, tibiis posticis piceis, alis cinereis basi et ad costam subfulvis.*

Body black: head covered with pale tawny down, clothed with pale tawny hairs; clypeus prominent: mouth and feelers black: eyes pitchy, bronzed here and there; facets on the fore part of the crown larger than those elsewhere: chest dark brown, clothed with

long pale tawny hairs: abdomen dark brown, nearly linear, longer, but hardly broader than the chest, clothed with bright tawny hairs; the hairs at the base are pale, those at the tip are black: legs black, clothed with tawny hairs; feet and four front shanks ferruginous; tips of claws black; hind thighs rather thick, unarmed; hind shanks pitchy, somewhat swelling towards the tips: wings gray, slightly tawny at the base and along the fore borders; wing-ribs and veins black, the latter ferruginous at the base and along the fore borders; poisers tawny. Length of the body 8 lines; of the wings 17 lines.

a. ——— ?

*MILESIA verbosa*, Harris, *Catalogue Ins. Massachusetts*. Fem.—  
*Nigra, pilis fulvis vestita, thorace pilis nigris fasciato, abdominis apice pilis nigris albidisque vario, antennis nigris apice ferrugineis, pedibus ferrugineis, femoribus nigris, alis limpidis basi ferrugineis ad costam subfulvis.*

Body black: head a little narrower than the chest, thickly clothed with tawny hairs, covered in front with white down; clypeus prominent: mouth and feelers black; third joint of the feelers ferruginous, nearly round: eyes black; all the facets very small: chest thickly clothed with tawny hairs; a band of black hairs between the wings; breast clothed with pale tawny hairs: abdomen obconical, a little narrower and much longer than the chest, clothed with tawny hairs, and at the tip with black and whitish hairs: legs ferruginous, thinly clothed with tawny hairs; thighs and tips of claws black; hind thighs thick, unarmed; hind shanks curved, banded with black: wings colourless, ferruginous at the base, slightly tawny along the borders of the veins; wing-ribs black; veins pitchy; poisers ferruginous. Length of the body 8 lines; of the wings 15 lines.

a. North America. Presented by the Entomological Club.

#### PIPIZA, Fallen.

*PIPIZA ornata*, Meig. *Dipt.* iii. 243, 3.

a. ——— ?

*PIPIZA noctiluca*, Fall. *Syrph.* 59, 2. Meig. *Dipt.* iii. 244, 6. Macq. *Hist. Nat. Dipt.* i. 568, 3. Zett. *Ins. Lapp.* 615, 1. *Musca noctiluca*, Linn. *Faun. Suec.* 1814. Gmel. *Ed. Syst. Nat.* v. 2874, 48. *Syrphus noctilucus*, Fabr. *Sp. Ins.* ii. 431, 54. *Ent. Syst.* iv. 304, 98. S. Rosarum, Panz. *Faun. Germ.* 95, 21. *Eristalis noctilucus*, Fabr. *Syst. Antl.* 247, 69. *Milesia noctiluca*, Latr. *Gen. Crust.* iv. 332.

a. England.

b. France.

*PIPIZA signata*, *Meig. Dipt.* iii. 246, 8.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

*PIPIZA bimaculata*, *Meig. Dipt.* iii. 246, 9.

a. England.

b. ——— ?

*PIPIZA lucida*, *Meig. Dipt.* iii. 247, 11.

a. England.

b. ——— ? From Mr. Children's collection.

*PIPIZA quadrimaculata*, *Fall. Syrph.* 59, 3. *Meig. Dipt.* iii. 249, 16. *Macq. Hist. Nat. Dipt.* i. 570, 9. *Zett. Ins. Lapp.* 616, 6. *Syrphus quadrimaculatus*, *Panz. Faun. Germ.* 86, 19.

a. France. From Mr. Children's collection.

*PIPIZA funebris*, *Meig. Dipt.* iii. 250, 17. *Macq. Hist. Nat. Dipt.* i. 570, 11.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. ——— ?

d. ——— ? From Mr. Children's collection.

*PIPIZA lugubris*, *Meig. Dipt.* iii. 250, 18. *Macq. Hist. Nat. Dipt.* i. 571, 13. *Zett. Ins. Lapp.* 617, 7. *Syrphus lugubris*, *Fabr. Sp. Ins.* ii. 431, 50. *Ent. Syst.* iv. 303, 91. *Musca mæsta*, *Gmel. Ed. Syst. Nat.* v. 2874, 358. *M. lugubris*, *Schrank, Faun. Boic.* iii. 2416. *Eristalis lugubris*, *Fabr. Syst. Antl.* 246, 64.

a. England.

b. France.

*PIPIZA melancholica*, *Meig. Dipt.* iii. 251, 20.

a. England.

b. ——— ?

*PIPIZA virens*, *Meig. Dipt.* iii. 253, 26. *Macq. Hist. Nat. Dipt.* i. 572, 17. *Mulio virens*, *Syst. Antl.* 186, 12. *Pipiza campetris*, *Fall. Syrph.* 59, 4.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. France.

*PIPIZA fulvitaris*, *Macq. Dipt. Nord.* 19. *Hist. Nat. Dipt.* i. 572, 19.

a. England.

*PIPIZA costalis*, Walker, *Linn. Trans.* xvii. 342, 31.

a. South America. Presented by the Entomological Club.

*PIPIZA longicornis*, Walker, *Linn. Trans.* xvii. 343, 32.

a. South America. Presented by the Entomological Club.

*PIPIZA sericea*, Walker, *Linn. Trans.* xvii. 343, 33.

a. South America. Presented by the Entomological Club.

### RHINGIA, Scopoli.

*RHINGIA rostrata*, Fabr. *Sp. Ins.* ii. 460, 1. *Ent. Syst.* iv. 374, 1. *Syst. Antl.* 222, 1. Schrank, *Faun. Boic.* iii. 2538. Panz. *Faun. Germ.* lxxxvii. 22. Latr. *Gen. Crust.* iv. 320. Cons. *Gén.* 443. Fall. *Syrph.* 33, 1. Macq. *Hist. Nat. Dipt.* i. 529, 1, pl. 12, f. 5. Var. *Musca nasutus*, Harr. *Ex.* 105, pl. 32, f. 35. *Conops rostrata*, Linn. *Syst. Nat.* ii. 1004, 1. Schrank, *Ins. Austr.* 989. *Stomoxys rostrata*, Gmel. *Ed. Syst. Nat.* v. 2892, 8. Stew. *El.* ii. 271. Shaw, *Gen. Zool.* vi. 396, pl. 111, f. inf. Turt. iii. 670.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*RHINGIA campestris*, Meig. *Dipt.* iii. 259, 2. *Ing. Inst.* 91. Curt. *Brit. Ent. pl.* 182. Macq. *Hist. Nat. Dipt.* i. 529, 2. *Musca rostrata*, Deg. *Ins.* vi. 57, 19, pl. vii. f. 21—23. Schell. *Gen. Mouch. pl.* viii. *Rhingia rostrata*, Var., Fall. *Syrph.* 33, 1. *Musca macrocephala*, Harr. *Ex.* 22, pl. 24, f. 27.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*RHINGIA nasica*, Say, *Journ. Acad. Philad.* iii. 94.

a. New York. Presented by the Entomological Club.

b. Trenton Falls, New York. Presented by E. Doubleday, Esq.

c. Nova Scotia. From Lieut. Redman's collection.

### BRACHYOPA, Hoffmannsegg.

*BRACHYOPA conica*, Meig. *Dipt.* iii. 261, 1. Macq. *Hist. Nat. Dipt.* i. 530, 1. *Musca conica*? Panz. *Faun. Germ.* 60, 20.

*Rhingia testacea*? Fall. *Syrph.* 34, 4. Zett. *Ins. Lapp.* 597, 2.

a. ———? From Mr. Children's collection.

**BRACHYOPA bicolor**, *Meig. Dipt.* iii. 262, 2, *pl.* 30, *f.* 6. *Macq. Hist. Nat. Dipt.* i. 531, 2, *pl.* 12, *f.* 6. *Rhingia bicolor*, *Fall. Syrph.* 33, 2.

a. England.

b. ———? From Mr. Children's collection.

**BRACHYOPA rufo-cyanea**, *Walker, Ent. Mag.* ii. 472.

a. New Holland. Presented by the Entomological Club.

### CHRYSOGASTER, *Meigen*.

#### Group I. *Meig. pl.* 30, *f.* 17.

**CHRYSOGASTER splendens**, *Meig. Dipt.* iii. 266, 1. *Macq. Hist. Nat. Dipt.* i. 560, 1. *Loew, Ent. Zeit. Stettin*, iv. 209, 1.

a. England.

b. France.

**CHRYSOGASTER violacea**, *Meig. Dipt.* iii. 267, 2. *Macq. Hist. Nat. Dipt.* i. 561, 2. *Loew, Ent. Zeit. Stettin*, iv. 2102.

a. England.

b. ———?

**CHRYSOGASTER metallica**, *Meig. Dipt.* iii. 267, 3. *Macq. Hist. Nat. Dipt.* i. 561, 3. *Zett. Ins. Lapp.* 615, 1. *Loew, Ent. Zeit. Stettin*, iv. 211, 3. *Syrphus metallinus*, *Fabr. Sp. Ins.* ii. 431, 52. *Ent. Syst.* iv. 303, 95. *Musca metallina*, *Gmel. Ed. Syst. Nat.* v. 2874, 359. *Eristalis metallicus*, *Fabr. Syst. Anth.* 246, 67. *Fall. Syrph.* 57, 16. *Chrysogaster discicornis*, *Megerle. Meig. Dipt.* iii. 270, 8. *Loew, Ent. Zeit. Stettin*, iv. 254, 13.

a. England.

b. France.

c. Aix-la-Chapelle. Presented by F. Walker, Esq.

**CHRYSOGASTER cœmeteriorum**, *Meig. Dipt.* iii. 268, 5. *Macq. Hist. Nat. Dipt.* i. 562, 7, *pl.* 12, *f.* 15. *Loew, Ent. Zeit. Stettin*, iv. 246, 8. *Musca cœmeteriorum*, *Gmel. Ed. Syst. Nat.* v. 2878, 82. *Don. Brit. Ins.* xii. 20, *pl.* 401, *f.* 2. *Syrphus cœmeteriorum*, *Fabr. Ent. Syst.* iv. 303, 94. *Panz. Faun. Germ.* lxxxii. 17. *Eristalis cœmeteriorum*, *Fabr. Syst. Anth.* 246, 65. *E. solstitialis*, *Fall. Syrph.* 56, 14.

a. England.

b. ———? From Mr. Children's collection.

c. Aix-la-Chapelle. Presented by F. Walker, Esq.

**CHRYSOGASTER viduata**, Meig. *Dipt.* iii. 269, 6. *Macq. Hist. Nat. Dipt.* i. 562, 9. Loew, *Ent. Zeit. Stettin*, iv. 248, 9. *Musca viduata*, Linn. *Syst. Nat.* ii. 994. *Faun. Suec.* 1852. Gmel. *Ed. Syst. Nat.* v. 2850, 94. *Turt.* iii. 611. *Eristalis viduata*, Fall. *Syrph.* 56, 15.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

**CHRYSOGASTER grandicornis**, Meig. *Dipt.* iii. 270, 7. *Macq. Hist. Nat. Dipt.* i. 563, 11. Loew, *Ent. Zeit. Stettin*, iv. 253, 12. *Musca politus*? Harr. *Ex.* 81, pl. 24, f. 26.

a. England.

**CHRYSOGASTER splendida**, Megerle. Meig. *Dipt.* iii. 271, 11. *Macq. Hist. Nat. Dipt.* i. 563, 12. Loew, *Ent. Zeit. Stettin*, iv. 258, 16.

a. England.

b. ——— ? From Mr. Children's collection.

**CHRYSOGASTER Apisaon**, n. s., mas. *Nigro-viridis, antennis pedibusque nigris, tibiis basi genubusque ferrugineis, tarsis fulvis, alis limpidis.*

Body greenish black: head clothed with black hairs: mouth and feelers black; third joint of the latter long and linear: eyes dark red, very hairy: chest thinly covered with tawny down; sides of the hind chest and of the base of the abdomen clothed with short hoary hairs: legs black; shanks towards the base and knees ferruginous; feet tawny, with black tips: wings colourless; wing-ribs and poisers ferruginous; veins piceous, yellow towards the base. Length of the body 3 lines; of the wings 6 lines.

a. New York. Presented by the Entomological Club.

**CHRYSOGASTER Antitheus**, n. s., fem. *Nigro-cyanea, antennis nigris apice rufis, pedibus cyaneo-nigris, tarsis piceis, alis limpidis.*

Body short, bluish black, shining: head dark blue, nearly as broad as the chest: eyes dark red: mouth black: feelers black; third joint pale red, very broad: abdomen broader, but not longer than the chest; disk dull: legs bluish black; feet piceous: wings colourless; wing-ribs and veins piceous, the latter black towards the tips; poisers tawny, with black knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New York.

Group II. *Meig. pl. 30, f. 18.* ORTHONEURA, *Macquart.*

CHRYSOGASTER nobilis, *Meig. Dipt. iii. 272, 13.* *Loew, Ent. Zeit. Stettin, iv. 262, 18, pl. 3, f. 16, 18.* *C. nigricollis, Megerle, Meig. Dipt. iii. 12.* *Eristalis nobilis, Fall. Syrph. 57, 17.* *Orthoneura nobilis, Macq. Hist. Nat. Dipt. i. 564, 2.*

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. France.

SYRPHUS, *Fabricius.*Group I. *Cheilosia, Megerle.*

SYRPHUS ruficornis, *Fabr. Sp. Ins. ii. 431, 48.* *Ent. Syst. iv. 301, 84.* *Panz. Faun. Germ. lxxvii. 20.* *Meig. Dipt. iii. 278, 1.* *M. rutilo, Harr. Ex. 80, pl. 24, f. 21.* *Musca ruficornis, Gmel. Ed. Syst. Nat. v. 2874, 356.* *Eristalis ruficornis, Fabr. Syst. Antl. 243, 50.* *Fall. Syrph. 50, 2.* *Zett. Ins. Lapp. 610, 2.* *Elophilus ruficornis, Latr. Gen. Crust. iv. 324.* *Cheilosia ruficornis, Macq. Dipt. Nord. 59, 17.* *Hist. Nat. Dipt. i. 555, 1, pl. 12, f. 14.*

a. England.

b. France.

c. ———? From Mr. Children's collection.

SYRPHUS œstraceus, *Fabr. Sp. Ins. ii. 426, 23.* *Ent. Syst. iv. 290, 44.* *Fall. Syrph. 21, 9.* *Meig. Dipt. iii. 279, 2.* *Musca œstracea, Linn. Faun. Suec. 1801.* *Gmel. Ed. Syst. Nat. v. 2871, 34.* *Deg. Ins. vi. 60, 4.* *Herbst, Gem. Nat. viii. 166, 7, pl. 340, f. 2.* *Schæff. Icon. pl. 10, f. 6.* *Turt. iii. 642.* *Schell. Gen. Mouch. pl. 11, f. 2.* *M. illustratus, Harr. Ex. 104, pl. 32, f. 32.* *Eristalis œstraceus, Fabr. Syst. Antl. 240, 34.* *Latr. Gen. Crust. iv. 323.* *Syrphus rupestris, Panz. Faun. Germ. 59, 13.* *Cheilosia œstracea, Macq. Hist. Nat. Dipt. i. 555, 2.*

a. England.

b. France.

c. ———? From Mr. Children's collection.

SYRPHUS œstriformis, *Barnston's MSS., mas.* *Niger, thoracis pilis anticis nigris posticis fulvis, scutello fulvo, abdomine pilis albis nigris fulvisque fasciato, antennis piccis, pedibus nigris, alis limpidis fusco unimaculatis.*

Body black: head clothed with dull tawny hairs, shining and prominent in front: mouth pitchy: feelers pitchy; bristle ferrugi-



nous, downy: eyes pitchy, each with a broad stripe of short black hairs; all the facets very small: chest clothed with short black hairs, and on the hinder part with pale tawny hairs; scutcheon tawny, very thickly clothed with pale tawny hairs: abdomen nearly oval, broader and a little longer than the chest, clothed with white hairs at the base, with black hairs in the middle, and with bright tawny hairs towards the tip: legs black, clothed with short black hairs; knees pitchy; shanks and feet clothed beneath with tawny down; hind feet tawny; claws and foot-cushions tawny; tips of claws black: wings colourless; a large dark brown spot in the disk; wing-ribs pitchy; veins black, ferruginous towards the base and along the fore borders; poisers ferruginous. Length of the body 7 lines; of the wings 14 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRPHUS chrysocomus*, *Meig. Dipt.* iii. 280, 4. *Cheilusia chrysocomus*, *Macq. Hist. Nat. Dipt.* i. 556, 4.

a. Ragatz, Switzerland. From Mr. Walker's collection.

*SYRPHUS grossus*, *Meig. Dipt.* iii. 281, 5. *Cheilusia grossa*, *Macq. Hist. Nat. Dipt.* i. 556, 5. *Eristalis grossa*, *Fall. Syrph.* 53, 6.

a. ———? From Mr. Children's collection.

*SYRPHUS variabilis*, *Panz. Faun. Germ.* 60, 10. *Latr. Gen. Crust.* iv. 325. *Meig. Dipt.* iii. 281, 6. *Eristalis ater*, *Fabr. Syst. Antl.* 246, 66. *E. nigrita*, *Fabr. Syst. Antl.* 244, 55. *E. variabilis*, *Fall. Syrph.* 54, 9. *Cheilusia variabilis*, *Macq. Hist. Nat. Dipt.* i. 557, 9.

a. England.

b. France.

c. Aix-la-Chapelle. Presented by F. Walker, Esq.

d. ———? From Mr. Children's collection.

*SYRPHUS nigrinus*, *Meig. Dipt.* iii. 282, 7.

a. England. Presented by F. Walker, Esq.

*SYRPHUS viduus*, *Meig. Dipt.* iii. 282, 9. *Cheilusia vidua*, *Macq. Hist. Nat. Dipt.* i. 556, 6. *Musca viduata*, *Fabr. Sp. Ins.* ii. 446, 54. *Ent. Syst.* iv. 336, 100. *M. burdus*? *Harr. Ex.* 106, pl. 32, f. 39.

a. England.

b. ———? From Mr. Children's collection.

c. ———?

*SYRPHUS mutabilis*, *Meig. Dipt.* iii. 281, 10. *Cheilisia mutabilis*, *Macq. Hist. Nat. Dipt.* i. 558, 14. *Eristalis mutabilis*, *Fall. Syrph.* 54, 10. *Zett. Ins. Lapp.* 614, 18.

a. ———? From Mr. Children's collection.

*SYRPHUS Chlorus*, *Meig. Dipt.* iii. 284, 11. *Cheilisia chloris*, *Macq. Hist. Nat. Dipt.* i. 558, 15.

a. France.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

*SYRPHUS scutellatus*, *Meig. Dipt.* iii. 284, 12, *pl.* 30, *f.* 29, 30. *M. tarditus*, *Harr. Ex.* 106, *pl.* 32, *f.* 40. *Eristalis scutellata*, *Fall. Syrph.* 55, 13. *Zett. Ins. Lapp.* 613, 17. *Cheilisia scutellata*, *Macq. Hist. Nat. Dipt.* i. 560, 21.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*SYRPHUS means*, *Fabr. Ent. Syst. Suppl.* 562, 63, 64. *Meig. Dipt.* iii. 285, 13. *Milesia means*, *Fabr. Syst. Antl.* 192, 19. *Cheilisia means*, *Macq. Hist. Nat. Dipt.* i. 560, 20.

a. England.

b. ———? From Mr. Children's collection.

*SYRPHUS flavipes*, *Panz. Faun. Germ.* 54, 10. *Meig. Dipt.* iii. 288, 19. *Eristalis flavipes*, *Zett. Ins. Lapp.* 611, 5.

a. ———? From Mr. Children's collection.

*SYRPHUS vernalis*, *Meig. Dipt.* iii. 290, 23. *Eristalis vernalis*, *Fall. Syrph.* 55, 12? *Zett. Ins. Lapp.* 611, 10? *Cheilisia vernalis*, *Macq. Hist. Nat. Dipt.* i. 557, 11.

a. ———? From Mr. Children's collection.

*SYRPHUS maculatus*, *Meig. Dipt.* iii. 295, 34. *Eristalis maculata*, *Fall. Syrph.* 52, 6.

a. England.

b. England. Presented by F. Walker, Esq.

c. ———? From Mr. Children's collection.

*SYRPHUS latrans*, *Barnston's MSS.*, mas. *Nigro-æneus*, *antennis ferrugineis*, *pedibus nigris*, *genuibus ferrugineis*, *tarsis piceis*, *alis nigro-fuscis*. Fem. — *Tibiis basi tarsisque fulvis*, *alis sublimpidis*.

*Male*.—Brassy black: head beset with black hairs: eyes dark red: mouth and feelers ferruginous, bristle black: region of the mouth covered with hoary bloom and clothed with short hoary

hairs : chest clothed with black hairs : breast slightly gray : abdomen brassy, clothed with short tawny hairs : legs black ; knees ferruginous ; feet piceous : wings dark brown, especially along the fore borders ; wing-ribs piceous ; veins black ; poisers tawny. *Female*. — Shanks tawny towards the base ; feet tawny at the tips and beneath : wings nearly colourless. Length of the body 3—3½ lines ; of the wings 6—7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### Group II.

**SYRPHUS Lucorum**, *Fabr. Sp. Ins.* ii. 426, 25. *Ent. Syst.* iv. 291, 46. *Meig. Dipt.* iii. 313, 58, *pl.* 30, *f.* 27. *Macq. Hist. Nat. Dipt.* i. 537, 8. *Musca Lucorum*, *Linn. Syst. Nat.* ii. 985. *Faun. Suec.* 1803. *Gmel. Ed. Syst. Nat.* v. 2871, 36. *Turt.* iii. 643. *M. pellucens*, *Harr. Ex.* 82, *pl.* 24, *f.* 28. *Eristalis Lucorum*, *Fabr. Syst. Antl.* 241, 37. *Fall. Syrph.* 50, 1. *Zett. Ins. Lapp.* 610, 1.

a. England.

b. ——— ?

**SYRPHUS amplus**, n. s., fem. *Niger, pilis fulvis hirtus, abdomine pilis nigris late fasciato, antennis nigris, pedibus fulvis, tibiis posticis femoribusque piceis, alis subcinereis ad costam fusco maculatis.*

Body black : head clothed with short tawny hairs, covered with tawny down, beset on the crown with some brown hairs, bright yellow in front : mouth pitchy : feelers black ; bristle tawny : eyes pitchy ; all the facets small : chest very thickly clothed with dull tawny hairs : breast less thickly clothed : abdomen nearly round, longer and much broader than the chest, its length hardly exceeding its breadth, clothed with pale tawny hairs for more than one-third of the length, then succeeds a broad band of black hairs, and the tip is clothed with longer pale tawny hairs : legs tawny, clothed with short tawny hairs ; thighs and hind shanks pitchy, clothed with black hairs ; shanks and feet darker towards the tips ; claws and foot-cushions tawny ; tips of claws black : wings slightly tinged with gray, adorned with an irregular brown spot beneath the middle of the fore border ; wing-ribs and veins pitchy, the latter ferruginous towards the base ; poisers tawny, with a pitchy spot on the knob. Length of the body 6 lines ; of the wings 15 lines.

a. ——— ? From Mr. Children's collection.

Group III. *Doros*, *Meigen*.

*SYRPHUS conopseus*, *Fabr. Sp. Ins.* ii. 429, 38. *Ent. Syst.* iv. 297, 69. *Latr. Gen. Crust.* iv. 325. *Cons. Gén.* 443. *Meig. Dipt.* 296, 35. *S. coarctatus*, *Panz. Faun. Ins. Germ.* 45, f. 22. *Musca conopsea*, *Gmel. Ed. Syst. Nat.* v. 2868, 21. *Schell. Gen. Mouch. pl.* 10, f. 1. *Turt.* iii. 645. *M. profuges*, *Harr. Ex.* 81, pl. 24, f. 25. *Mulio conopseus*, *Fabr. Ent. Syst. Suppl.* 559, 6. *Milesia conopsea*, *Fall. Syst. Antl.* 5, 29. *Scæva conopsea*, *Fall. Syrph.* 37, 2. *Doros conopseus*, *Meig. Macq. Hist. Nat. Dipt.* i. 5550, 1.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*SYRPHUS Balyras*, n. s., fem. *Niger, thoracis lateribus flavo trimaculatis, abdomine fasciis quatuor flavis arcuatis ornato, antennis fulvis, pedibus flavis, femoribus posterioribus nigro cinctis, tibiis posticis apice piceis, pedibus anticis nigris, alis limpidis.*

Body black: head covered with golden down: eyes dark red, their facets larger in front: feelers and their bristles bright tawny: chest clothed with short tawny hairs, adorned with three yellow spots on each side; the middle pair of spots transverse and extending to the breast: abdomen convex, adorned with four slightly arched, yellow bands: legs yellow; four hinder thighs with broad black bands; hind shanks pitchy towards the tips; fore legs black, their shanks yellow at the base: wings colourless, tawny along the fore borders for nearly half the breadth; wing-ribs and veins pale tawny; poisers reddish tawny. Length of the body 5 lines; of the wings 9 lines.

a. New York. Presented by the Entomological Club.

b. Trenton Falls. Presented by E. Doubleday, Esq.

Group IV. *Scæva*, *Fallen*.

*SYRPHUS festivus*, *Fabr. Sp. Ins.* ii. 430, 47. *Ent. Syst.* iv. 300, 82. *Latr. Gen. Crust.* iv. 325. *Cons. Gén.* 443. *Musca festiva*, *Linn. Syst. Nat.* ii. 986. *Faun. Suec.* 1812. *Gmel. Ed. Syst. Nat.* v. 2874, 45. *Schrank, Faun. Boic.* iii. 2433. *Ins. Austr.* 906. *Stew. El.* ii. 265. *Turt.* iii. 647. *M. arcuata*, *Don. Brit. Ins.* xii. 84, pl. 424, f. 2. *M. anteambulo*, *Harr. Ex.* 60, pl. 15, f. 17. *Musca*, &c., *Geoff. Ins.* ii. 505, 27, pl. 18, f. 1. *Schæff. Icon. pl.* 36, f. 10. *M. citrofasciata*, *Deg.*

*Ins.* vi. 53, 9. *Eristalis festivus*, *Fabr. Syst. Antl.* 242, 46.  
*Scæva festiva*, *Fall. Syrph.* 38, 3. *Doros festivus*, *Macq.*  
*Hist. Nat. Dipt.* i. 550, 2.

- a. England.
- b. Aix-la-Chapelle. Presented by F. Walker, Esq.
- c. France.
- d. ———? From Mr. Children's collection.

*SYRPHUS ornatus*, *Meig. Dipt.* iii. 298, 37. *Musca pedissequus*,  
*Harris.* *Doros ornatus*, *Macq. Hist. Nat. Dipt.* i. 550, 3.

- a. England.
- b. France.
- c. South of France. Presented by F. Walker, Esq.
- d. ———?

*SYRPHUS profusus*, n. s., mas. *Æneus*, *capite humeris scutelligæ*  
*marginæ posticis fulvis, abdomine nigro fulvo quadrimaculato,*  
*antennis piceis subius ferrugineis, pedibus fulvis femoribus pi-*  
*ceis, tibiis posticis ferrugineo fuscatis, alis subcinereis basi ad*  
*costam fulvis.*

Head tawny, clothed with pale yellow hairs, yellow in front :  
mouth pitchy : clypeus prominent : feelers pitchy, ferruginous be-  
neath ; bristle tawny, its tip pitchy : eyes almost black ; facets on  
the fore part of the crown larger than those elsewhere : chest and  
breast brassy, thickly clothed with short tawny hairs ; a tawny spot  
on each shoulder ; hind border of the scutcheon tawny : abdomen  
nearly elliptical, black, thickly clothed with short tawny hairs, a  
little longer and broader than the chest, adorned with two tawny  
angular spots on each side ; under side mostly tawny : legs tawny ;  
hips and thighs pitchy ; hind thighs tawny at the base ; a broad  
ferruginous band across each hind shank ; tips of feet pitchy ; claws  
and foot-cushions tawny ; tips of claws black : wings slightly gray,  
tawny at the base and along the fore borders, whose tips are brown ;  
wing-ribs and veins tawny, the latter pitchy towards their tips ;  
poisers tawny. Length of the body  $5\frac{1}{2}$  lines ; of the wings 11 lines.

- a. Georgia. From Mr. Abbot's collection.

*SYRPHUS arcuatus*, *Meig. Dipt.* iii. 302, 43. *Macq. Hist. Nat.*  
*Dipt.* i. 536, 6. *Scæva arcuata*, *Fall. Syrph.* 42, 11. *Zett.*  
*Ins. Lapp.* 601, 9.

- a. England.
- b. France.
- c. ———? From Mr. Children's collection.

**SYRPHUS Pyrastris**, *Fabr. Sp. Ins.* ii. 432, 58. *Ent. Syst.* iv. 305, 102. *Latr. Gen. Crust.* iv. 325. *Meig. Dipt.* iii. 303, 44. *Macq. Hist. Nat. Dipt.* i. 536, 3. *Musca Pyrastris*, *Linn. Syst. Nat.* ii. 987. *Faun. Suec.* 1817. *Gmel. Ed. Syst. Nat.* v. 2875, 51. *Schrank, Faun. Boic.* iii. 2431. *Ins. Austr.* 907. *Musca*, &c., *Reaum. Ins.* iii. pl. 31, f. 9. *Geoff. Ins.* ii. 517, 46. *Albin. Ins.* pl. 66, a—d. *Berk. Syn.* i. 163. *Don. Brit. Ins.* xii. 19, pl. 401, f. 1. *Stew. El.* ii. 266. *Turt.* iii. 649. *M. Rosæ*, *Deg. Ins.* vi. 49, 5, pl. 6, f. 14—21. *Scæva Pyrastris*, *Fabr. Syst. Antl.* 2493. *Fall. Syrph.* 39, 5. *Ruricola*, *Gard. Chron.* 1842, 1441. *S. unicolor*, var. *Curt. Brit. Ent.* 519.

a. England.

b. France.

c. Egypt.

d. ——— ? From Mr. Children's collection.

**SYRPHUS Agnon**, n. s., fem. *Nigro-cyaneus, fronte abdominisque fasciis tribus interruptis flavis, antennis piceis, pedibus fulvis posticis nigris, alis limpidis.*

Nearly allied to *S. Pyrastris*. Body bluish black: head yellow in front: mouth black: eyes and feelers pitchy: chest and breast clothed with short pale hairs; scutcheon with a tawny tinge: abdomen adorned with three interrupted yellow bands, of which the second and the third are curved on each side; the bands are entire on the underside: legs tawny; hind legs mostly black: wings colourless; wing-ribs, veins, and brands black; poisers tawny. Length of the body 5—5½ lines; of the wings 10—11 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

**SYRPHUS Alcidice**, n. s., fem. *Nigro-æneus, capite scutelloque fulvis, abdominis fasciis quatuor cinereis, antennis fuscis, pedibus fulvis, posticis plerumque nigris, alis subcinereis.*

Nearly allied to *S. Ribesii*. Body brassy black: head tawny, adorned with a short black stripe in front: eyes brassy red: mouth black: feelers dark brown: chest and breast clothed with tawny hairs; scutcheon dark tawny: abdomen black, adorned with four interrupted gray bands; the band next the base has a tawny tinge on each side: legs tawny; thighs darker towards the base; hind legs, except the knees, almost black on the upper side: wings slightly gray; wing-ribs and brands dark brown; veins black; poi-

sers tawny. Length of the body  $4\frac{1}{2}$ —5 lines; of the wings 9—10 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRPHUS arcucinctus*, Barnston's MSS. *Nigro-æneus, fronte scutellique margine fulvescentibus, abdominis maculis sex fasciisque duabus flavis, antennis piceis, pedibus ferrugineis, posticis nigris, alis subcinereis.*

Allied to *S. Alcidice*. Body brassy black: head partly tawny in front: eyes dark red: mouth black: feelers pitchy; chest and breast clothed with short tawny hairs; scutcheon bluish black, with a slight tawny tinge on the border: abdomen adorned with three yellow cross spots on each side, and at the tip with two slender bands; second and third pair of spots slightly curved: legs ferruginous; hind legs black, with ferruginous knees: wings with a very slight gray tinge; wing-ribs pitchy; veins black; poisers tawny. Length of the body 5 lines; of the wings 10 lines.

Var.  $\beta$ . Hind legs tawny, shaded with brown.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRPHUS seleniticus*, Meig. *Dipt.* iii. 304, 45, pl. 30, f. 21. *Musca mellina*, Harr. *Ex.* 80, pl. 24, f. 23.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*SYRPHUS ericetorum*, Fabr. *Sp. Ins.* ii. 425, 18. *Ent. Syst.* iv. 287, 34. *S. Salviæ*, Fabr. *Ent. Syst.* iv. 306, 105. *Wied. Auss. Zweif.* ii. 122. 9. *Macq. Dipt. Exot.* ii. 88, 5, pl. 15, f. 7. *Scæva Salviæ*, Fabr. *Syst. Antl.* 250, 6.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

b. North Bengal. From Miss Campbell's collection.

c. East Indies. From Archdeacon Clerk's collection.

d. ———?

*SYRPHUS ægrotus*, Wied. *Auss. Zweif.* ii. 118, 3. *Macq. Dipt. Exot.* ii. 88, 4. *S. fascipennis*, Macq. *Hist. Nat. Dipt.* i. 537, 9. *Eristalis ægrotus*, Fabr. *Syst. Antl.* 243, 48.

a. East Indies. From Archdeacon Clerk's collection.

b. ———?

*SYRPHUS americanus*, *Wied. Auss. Zweif.* ii. 129, 22. *Macq. Dipt. Exot.* ii. 94, 12.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRPHUS Grossulariæ*, *Meig. Dipt.* iii. 306, 48. *Macq. Hist. Nat. Dipt.* i. 542, 26.

- a. England:

b. ———? From Mr. Children's collection.

*SYRPHUS Ribesii*, *Fabr. Sp. Ins.* ii. 432, 57. *Ent. Syst.* iv. 304, 100. *Latr. Gen. Crust.* iv. 325. *Cons. Gén.* 443. *Meig. Dipt.* iii. 306, 49. *Macq. Hist. Nat. Dipt.* i. 538, 12. *S. Philadelphicus*, var. ? *Macq. Dipt. Exot.* ii. 93, 11, *pl.* 16, *f.* 2. *Musca Ribesii*, *Linn. Syst. Nat.* ii. 987. *Faun. Suec.* 1816. *Gmel. Ed. Syst. Nat.* v. 2875, 50. *Deg. Ins.* vi. 47, 4, *pl.* 6, *f.* 3—13. *Schrank, Faun. Boic.* iii. 2408. *Ins. Austr.* 905. *Don. Brit. Ins.* xii. 21, *pl.* 401, *f.* 3. *Stew. El.* ii. 266. *Turt.* iii. 649. *M. blandus*, *Harr. Ex.* 106, *pl.* 32, *f.* 38. *Musca*, &c., *Geoff. Ins.* ii. 511, 37. *Scæva Ribesii*, *Fabr. Syst. Antl.* 248, 1. *Fall. Syrph.* 40, 6. *Zett. Ins. Lapp.* 599, 5. *Kirby, North Amer. Zool. Ins.* 315, 1.

- a. England.

- b. France.

- c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

- d. Nova Scotia. From Lieut. Redman's collection.

- e. ———? From Mr. Children's collection.

*SYRPHUS concavus*, *Wied. Auss. Zweif.* ii. 130, 24. *Scæva concava*, *Say, Journ. Philad. Acad.* iii. 89, 3.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

- b. Nova Scotia. From Lieut. Redman's collection.

- c. Trenton Falls. Presented by E. Doubleday, Esq.

*SYRPHUS emarginatus*, *Wied. Auss. Zweif.* ii. 119, 4. *Scæva emarginata*, *Say, Journ. Philad. Acad.* iii. 91, 5.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRPHUS affinis*, *Wied. Auss. Zweif.* ii. 117, 2. *Scæva affinis*, *Say, Journ. Philad. Acad.* iii. 93, 9.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.



**SYRPHUS topiarius**, *Meig. Dipt.* iii. 305, 47. *Scæva topiaria*, *Zett. Dipt. Lapp.* 599, 4.

a. England.

b. France.

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

d. New York. Presented by the Entomological Club.

**SYRPHUS vitripennis**, *Megerle, Meig. Dipt.* iii. 308, 50. *Macq. Hist. Nat. Dipt.* i. 538, 13. *Scæva vitripennis*, *Zett. Ins. Lapp.* 602, 15.

a. England.

b. ———? From Mr. Children's collection.

c. ———?

**SYRPHUS lunulatus**, *Meig. Dipt.* iii. 299, 39. *Macq. Hist. Nat. Dipt.* i. 536, 4. *Scæva lunulata*, *Zett. Ins. Lapp.* 600, 7.

a. England.

b. ———? From Mr. Children's collection.

c. ———?

**SYRPHUS hyalinatus**, *Meig. Dipt.* iii. 312, 56. *Macq. Hist. Nat. Dipt.* i. 543, 31. *Scæva hyalinata*, *Fall. Syrph.* 43, 13.

a. ———? From Mr. Children's collection.

b. ———?

**SYRPHUS balteatus**, *Meig. Dipt.* iii. 312, 57, *Macq. Hist. Nat. Dipt.* i. 538, 11. *Musca balteata*, *Deg. Ins.* vi. 52, 7. *Musca*, &c., *Geoff. Ins.* ii. 514, 40. *Schæff. Icon. pl.* 36, f. 12. *M. alternata*, *Gmel. Ed. Syst. Nat.* v. 2880, 384. *Schrank, Faun. Boic.* iii. 2417. *Ins. Austr.* 908. *M. canabina*, *Gmel. Ed. Syst. Nat.* v. 2864, 313. *M. scitule*, *Harr. Ex.* 111, pl. 33, f. 55, (mas.) *M. scitulus*, *Harr. Ex.* 105, pl. 32, f. 33, (fem.) *Syrphus nectareus*, *Fabr. Ent. Syst.* iv. 309, 116. *Panz. Faun. Germ.* lxxxii. 19. *Scæva nectarea*, *Fabr. Syst. Antl.* 253, 22. *Fall. Syrph.* 43, 14.

a. England.

b. France.

c. Italy. From Dr. Leach's collection.

d. Madeira.

e. ———? From Mr. Children's collection.

*SYRPHUS alternans*, mas. var.? *Macq. Dipt. Exot.* ii. 89, 7. *Æneus*, capite flavo, scutello fulvo, abdomine flavo fasciis quinque nigris ornato, antennis fulvis nigro vittatis, pedibus flavis, alis limpidis.

Head yellow, clothed with short white hairs: mouth and feelers tawny, the latter striped with black: eyes red: chest and breast brassy, thickly clothed with short tawny hairs; scutcheon dull tawny: abdomen yellow, clothed with short tawny hairs, adorned with five narrow black bands; the first of these bands is near to the second, and the third to the fourth; the fifth is more remote: legs bright yellow, clothed with whitish down: wings colourless; wing-ribs ferruginous; veins black, tawny towards the base; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. North Bengal. From Miss Campbell's collection.

*SYRPHUS bifasciatus*, *Fabr. Ent. Syst.* iv. 305, 101. *Macq. Hist. Nat. Dipt.* i. 539, 15. *Scæva bifasciata*, *Fabr. Syst. Antl.* 248, 2. *Fall. Syrph.* 40, 7. *Musca interrupta*, *Gmel. Ed. Syst. Nat.* v. 2879, 376. *M. elegans*, *Harr. Ex.* 105, pl. 32, f. 34.

a. England.

b. ———? From Mr. Children's collection.

*SYRPHUS tricinatus*, *Meig. Dipt.* iii. 310, 53. *Macq. Hist. Nat. Dipt.* i. 539, 16. *Scæva tricineta*, *Fall. Syrph.* 41, 9. *Zett. Ins. Lapp.* 600, 6.

a. ———? From Mr. Children's collection.

*SYRPHUS Alneti*, *Meig. Dipt.* iii. 310, 54. *Macq. Hist. Nat. Dipt.* i. 539, 17. *Zett. Ins. Lapp.* 598, 1. *S. glaucius*, *Panz. Faun. Germ.* 59, 17. *S. nobilis*, *Meig. Dipt.* iii. 316, 62. *Macq. Hist. Nat. Dipt.* i. 535, 1. *Scæva Alneti*, *Fall. Syrph.* 38, 4.

a. England.

b. ———? From Mr. Children's collection.

*SYRPHUS glaucius*, *Fabr. Sp. Ins.* ii. 431, 53. *Ent. Syst.* iv. 304, 97. *Macq. Hist. Nat. Dipt.* i. 543, 30. *Musca glaucia*, *Linn. Syst. Nat.* ii. 986. *Faun. Suec.* 1813. *Gmel. Ed. Syst. Nat.* v. 2874, 47. *Eristalis glaucius*, *Fabr. Syst. Antl.* 243, 49. *Elophilus glaucius*, *Latr. Gen. Crust.* iv. 324. *Scæva glaucia*, *Panz. Faun. Germ.* 104, 16. *Fall. Syrph.* 41, 8.

a. England.

*SYRPHUS corollæ*, *Fabr. Ent. Syst.* iv. 306, 106. *Meig. Dipt.* iii. 304, 46. *Macq. Hist. Nat. Dipt.* i. 539, 18. *Musca pyrorum*,

*Schrank, Faun. Boic.* iii. 2430. *Geoff. Ins.* ii. 518, 48. *Scæva corollæ, Fabr. Syst. Antl.* 250, 8. *Zett. Ins. Lapp.* 602, 16. *S. olitoria, Fall. Syrph.* 43, 12.

a. ——— ? From Mr. Children's collection.

**SYRPHUS** *Babyssa*, n. s., fem. *Cyaneus, ventre ferrugineo, antennis ferrugineis, pedibus fulvis, tibiis apice fuscentibus, tarsis piceis, alis fulvo subcinereis.*

Body bright deep blue, clothed with short tawny and hoary hairs: mouth and feelers ferruginous; bristles of the latter black: eyes red: abdomen dark ferruginous beneath: legs tawny; shanks shaded with brown towards the tips; feet pitchy: wings slightly gray, with a tawny tinge; wing-ribs ferruginous; veins black; poisers tawny, with pitchy knobs. Length of the body 4 lines; of the wings 9 lines.

a. Madeira. Presented by Mrs. Hope.

**SYRPHUS** *adolescens, Barnston's MSS.*, mas. et fem. *Nigro-æneus, fronte scutelloque fulvis, abdominis fasciis tribus latis interruptis unoque integro angusto flavis, antennis piceis, pedibus fulvis, femoribus basi nigris, alis sublimpidis.*

Allied to *S. arcucinctus*. Body brassy black: head tawny with a bluish tinge in front: mouth black: feelers pitchy: eyes dark red: chest and breast clothed with short tawny hairs; scutcheon dark tawny: abdomen adorned with three broad yellow broken bands, and with one narrow entire yellow band: legs tawny; thighs at the base and hind thighs, except their tips, black: wings nearly colourless; wing-ribs and brands dark brown; veins black; poisers tawny. Length of the body 4—5 lines; of the wings 8—10 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

**SYRPHUS** *auricollis, Meig. Dipt.* iii. 318, 64. *Macq. Hist. Nat. Dipt.* 535, 2.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

**SYRPHUS** *cinctus, Meig. Dipt.* iii. 318, 65. *Scæva cincta, Fall. Syrph.* 45, 18.

a. ——— ? From Mr. Children's collection.

b. ——— ?

**SYRPHUS** Ortas, *White, Zool. Voy. Erebus and Terror. Fem.*—  
*Æneo-viridis, capite cyaneo, scutello fulvo, abdomine nigro, fasciis quatuor interruptis flavis, antennis piceis, pedibus fulvis, tarsis pedibusque posticis piceis, alis limpidis.*

Head blue, clothed with black hairs, covered in front with pale yellow down: mouth black: feelers piceous, ferruginous at the base; bristle black: chest brassy green, clothed with tawny hairs; scutcheon tawny: breast hoary, clothed with white hairs: abdomen deep black, thinly clothed with black and whitish hairs, adorned with four yellow bands, which are interrupted along the mid-back, especially towards the tip: legs tawny, clothed with whitish hairs; feet and hind legs pitchy: wings colourless; wing-ribs and poisers tawny; veins black. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. New Zealand. Presented by Dr. Sinclair.

**SYRPHUS** Damastor, n. s., fem. *Æneus, scutello fulvescente, abdominis nigri fasciis quatuor plus minusve interruptis fulvis, antennis ferrugineis, pedibus fulvis, tarsis pedibusque posticis fuscis, femoribus intermediis basi nigris, alis limpidis.*

Allied to *S. scutatus*. Head clothed with whitish down, excepting the crown, where it is black and shining; there is a tawny spot at the base of the feelers, which are ferruginous: eyes red: chest brassy, clothed with short hoary hairs; breast gray; scutcheon with a tawny tinge: abdomen black, with four interrupted tawny bands; the second and the third bands are in some cases entire, and then their hind borders are angular: legs tawny; feet and hind legs tinged with brown; middle thighs black towards the base: wings colourless; wing-ribs and poisers tawny; veins black, tawny towards the base. Length of the body 4 lines; of the wings 8 lines.

a. New Holland. Presented by J. Hunter, Esq.

b. West Australia. From Mr. Clifton's collection.

**SYRPHUS** Agrolas, n. s., fem. *Nigro-cyaneus, abdominis nigri maculis quatuor magnis fulvis, antennis ferrugineis, pedibus fulvis, femoribus pedibusque posticis fuscis, alis subcinereis.*

Body bluish black, clothed with short tawny hairs: feelers ferruginous, their bristles black: eyes red: abdomen black, adorned with four large tawny spots, which occupy nearly all the breadth, and about half the length from the base of the third and the fourth segments; the hind borders of these spots are somewhat narrower

than their fore borders: legs tawny, clothed with short tawny hairs; thighs and hind legs mostly brown: wings slightly gray; wing-ribs and poisers tawny; veins black, tawny at the base. Length of the body 5 lines; of the wings 9 lines.

a. Van Dieman's Land. Presented by the Rev. Augustus Beaufort.

*SYRPHUS orientalis*, Wied. *Anal. Ent.* 36, 58. *Auss. Zweif.* ii. 139, 40.

a. Madras. Presented by Walter Elliot, Esq.

*SYRPHUS guttatus*, Meig. *Dipt.* iii. 322, 71. *Scæva guttata*, Fall. *Syrph.* 44, 16. *Zett. Ins. Lapp.* 604, 22.

a. ——— ?

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRPHUS 6-quadratus*, Barnston's MSS., mas. et fem. *Nigro-æneus aut nigro-cyaneus, fronte fulvo, scutello nonnunquam flavo, abdominis fasciis tribus latis interruptis duabusque angustis integris fulvis aut flavis, pedibus fulvis, femoribus basi tarsisque apice fuscis, pedibus posticis nigro-fuscis, alis subcinereis.*

Body brassy black: head hoary and clothed with short tawny hairs behind, beset with black hairs on the crown, tawny in front: eyes red: mouth black: feelers pitchy: scutcheon yellow: abdomen deep black, adorned with three broad yellow interrupted bands, and at the tip with two very narrow entire bands: on the underside the bands are not broken: legs tawny; thighs towards the base and feet towards the tips brown; hind legs dark brown: wings slightly gray; wing-ribs tawny; veins black; poisers yellow. Length of the body  $3\frac{1}{2}$ —4 lines; of the wings 7—8 lines.

Var. a. Body bluish black.

Var. β. Bands of the abdomen tawny.

Var. γ. Scutcheon brassy.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

a. Nova Scotia. From Lieut. Redman's collection.

*SYRPHUS tibicen*, Wied. *Auss. Zweif.* ii. 127, 19. *Macq. Dipt. Exot.* ii. 102, 26, pl. 17, f. 3. *Walk. Linn. Trans.* xvii. 346, 40.

a. Brazil. Presented by the Entomological Club.

*SYRPHUS umbellatarum*, *Fabr. Ent. Syst.* iv. 307, 107. *Meig. Dipt.* iii. 320, 68. *Scæva umbellatarum*, *Fabr. Syst. Antl.* 250, 9. *Fall. Syrph.* 44, 15. *Zett. Ins. Lapp.* 604, 21.

a. France.

b. Alten, Finmark. Presented by F. Walker, Esq.

c. ———? From Mr. Children's collection.

d. Nova Scotia. From Lieut. Redman's collection.

*SYRPHUS cinctus*, *Meig. Dipt.* iii. 318, 65. *Macq. Hist. Nat. Dipt.* i. 542, 27. *Scæva cincta*, *Fall. Syrph.* 45, 18. *Zett. Ins. Lapp.* 604, 21.

a. France.

b. ———? From Mr. Children's collection.

*SYRPHUS Naso*, *Barnston's MSS.*, fem. *Nigro-æneus*, *abdomine utrinque maculis quatuor fulvis, antennis piceis, pedibus fulvis, tibiis fuscis, metapedibus nigris, alis subcinereis.*

Body brassy: head prominent towards the mouth: mouth and feelers pitchy: eyes dark red: abdomen brassy black, adorned with four large tawny spots on each side: legs tawny; shanks slightly brown; hind legs black, their knees tawny: wings slightly gray; wing-ribs and poisers tawny; veins black, tawny towards the base. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SYRPHUS mellinus*, *Fabr. Sp. Ins.* ii. 433, 61. *Ent. Syst.* iv. 308, 110. *Latr. Gen. Crust.* iv. 325. *Meig. Dipt.* iii. 331, 85. *Macq. Hist. Nat. Dipt.* i. 544, 35, 3. *Musca mellina*, *Linn. Faun. Succ.* 1827. *Gmel. Ed. Syst. Nat.* v. 2876, 55. *Deg. Ins.* vi. 52, 8. *Geoff. Ins.* ii. 516, 44. *Schrank, Ins. Austr.* 910. *Faun. Boic.* iii. 2410. *Syrphus noctilucus*, *Panz. Faun. Germ.* 72, 24. *Scæva Rosarum*, *Fall. Syrph.* 47, 22.? *S. mellina*, *Fabr. Syst. Antl.* 251, 12. *Fall. Syrph.* 46, 20. *Zett. Ins. Lapp.* 608, 40.

a. ———? From Mr. Children's collection.

b. ———?

*SYRPHUS geminatus*? *Wied. Auss. Zweif.* ii. 145, 50. *Scæva geminata*, *Say, Journ. Philad. Acad.* iii. 92, 7.

a. ———? From Mr. Children's collection.

**SYRPHUS Agonis**, n. s., mas. *Æneus*, abdomine nigro, disco fulvo, margine suturis vittaque dorsali nigris, vittis lateralibus fuscis, antennis nigris, pedibus piceis, femoribus nigris, tibiis basi genubusque fulvis, alis subcinereis.

Body brassy: head covered with hoary down, clothed behind with short tawny hairs, and on the crown with black hairs: mouth black, ferruginous towards the tip: feelers black: eyes brassy red: chest clothed with short tawny hairs: breast gray: abdomen tawny, with black sutures, a black border and a black stripe along the middle; there is also a slender brown stripe along each side: legs pitchy; thighs black; shanks towards the base and knees tawny; tips of four front shanks also tawny: wings slightly gray; wing-ribs and poisers tawny; veins black. Length of the body 3 lines; of the wings 6 lines.

a. Galapagos. Presented by C. Darwin, Esq.

**SYRPHUS maculosus**, Meig. *Dipt.* iii. 330, 84. *Macq. Hist. Nat. Dipt.* i. 544, 34.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. ———? From Mr. Children's collection.

Var.  $\beta$ . Hind thighs and hind shanks tawny: stripe of the abdomen not appearing beyond the second segment.

**SYRPHUS scalaris**, Fabr. *Ent. Syst.* iv. 308, 112. *Panz. Faun. Germ.* xlv. 20. *Latr. Gen. Crust.* iv. 325. *Meig. Dipt.* iii. 330, 83. *Macq. Hist. Nat. Dipt.* i. 544, 33. *Scæva mellina*, Var.  $\beta$ , *Fall. Syrph.* 46, 20. *S. scalaris*, Fabr. *Ent. Syst.* iv. 308, 112. *Syst. Antl.* 252, 14. *Zett. Ins. Lapp.* 608, 41.

a. England.

b. France.

c. Aix-la-Chapelle. Presented by F. Walker, Esq.

d. ———? From Mr. Children's collection.

e. ———?

f. Ohio. Presented by the Entomological Club.

g. New York. Presented by E. Doubleday, Esq.

h. Trenton Falls. Presented by E. Doubleday, Esq.

i. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**SYRPHUS gracilis**, Meig. *Dipt.* iii. 328, 80. *Macq. Hist. Nat. Dipt.* i. 543, 32.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. New York. Presented by the Entomological Club.

**SYRPHUS Automenes**, n. s., fem. *Cyaneus, abdomine nigro-purpureo maculis octo flavis ornato, antennis ferrugineis, pedibus fulvis, femoribus posticis nigro cinctis, tibiis posticis nigris, alis limpidis.*

Body deep blue: mouth and feelers ferruginous: eyes red: abdomen bluish black, with a purple tinge, adorned with four yellow spots on each side; first pair of spots small, nearly square; second and third pairs larger, concave on the outer sides of their hind borders; fourth pair smaller and transverse: legs tawny; a black ring near the tip of each hind thigh; hind shanks mostly black: wings colourless; wing-ribs and poisers tawny; veins brown, tawny towards the base. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**SYRPHUS iridipennis**, Walker, Linn. Trans. xvii. 345, 38.

a. South America. Presented by the Entomological Club.

b. ———? From Mr. Children's collection.

**SYRPHUS Antiphates**, n. s., mas. *Cyaneo-viridis, capite cyaneo, thoracis lateribus æneis, abdomine nigro maculis octo fulvis ornato, apice æneo, antennis ferrugineis, pedibus fulvis, posticis piceis, alis nigro-fuscis.*

Body bluish green: head blue and covered with white down in front: mouth and feelers ferruginous: eyes bright red: chest with a brassy tinge on each side: abdomen black, narrow, adorned with four tawny spots on each side, brassy at the tip: legs tawny; hind legs pitchy: wings blackish brown; wing-ribs pitchy; veins black; poisers tawny. Length of the body 3 lines; of the wings 5 lines.

a. Jamaica. From Mr. Gosse's collection.

**SYRPHUS Amissas**, n. s., mas. *Æneus, fronte fulva, antennis nigris, pedibus fulvis, posticis nigris, alis fuscis, maculis duabus posticis limpidis.*

Body dark bronze: head a little broader than the chest, tawny in front: eyes red; facets very small: mouth and feelers black: abdomen slender, nearly cylindrical, slightly increasing in breadth towards the tip, more than twice the length of the chest and about half its breadth: legs tawny; hind legs black: wings dark brown, each with a large colourless angle near the tip of the hind border, which is also colourless towards the base; wing-ribs piceous; veins



black ; poisers ferruginous. Length of the body  $4\frac{1}{2}$  lines ; of the wings 8 lines.

a. Georgia. From Mr. Abbot's collection.

**SYRPHUS** Peas, n. s., mas. *Purpureo-æneus, capitis macula nigro-cyanea, fronte flavo, abdomine nigro fasciis purpureis, antennis nigris, pedibus piceis, femoribus basi flavis, alis fuscis maculis duabus posticis limpidis.*

Body purplish bronze : head a little broader than the chest, yellow in front, adorned with a large bluish black spot above the base of the feelers : eyes red ; facets very small : mouth and feelers black : abdomen slender, nearly cylindrical, slightly increasing in breadth towards the tip, more than twice the length of the chest, and not half its breadth ; each segment adorned with a purple band : legs pitchy ; four front thighs yellow for half the length from the base ; hind thighs tawny at the base : wings dark brown, with a large colourless angle near the tip of the hind border, which is also colourless at the base, and there are some almost colourless spots between it and the disk ; wing-ribs and veins black ; poisers tawny, with piceous knobs. Length of the body 5 lines ; of the wings 8 lines.

a. ——— ? From Mr. Children's collection.

**SYRPHUS** Radaca, n. s., mas. *Æneus, abdomine fasciis rufis canisque, antennis nigris, pedibus fulvis, posticis piceis, alis limpidis dimidio costali fuscis fuscoque fasciatis.*

Body dark bronze : head a little broader than the chest, white, and clothed with short white hairs behind and beneath, tawny in front : eyes red ; facets very small : mouth and feelers black : breast covered with white bloom : abdomen slender, slightly increasing in breadth from the base to the tip, much narrower than the chest, and more than twice its length ; a broad, dark red band on each segment, whose hind border is covered with hoary bloom : legs dark tawny ; hind legs pitchy : wings dark brown along the fore borders for the whole length and for near half the breadth ; the dark part is sometimes varied with colourless stripes, its outline is irregular, and it joins the hind border by a broad, irregular band a little beyond two-thirds of the length of the wing ; wing-ribs and veins black ; poisers tawny. Length of the body  $4\frac{1}{2}$  lines ; of the wings 8 lines.

a. Florida. Presented by E. Doubleday, Esq.

**SYRPHUS** *Æsycles*, n. s., mas. *Nigro-æneus*, abdomine piceo-æneo, antennis pedibusque piceis, genibus anterioribus fulvis, alis subcinereis.

Head brassy, clothed with black hairs, covered in front with white down: mouth black: feelers piceous; bristle black: eyes dark red: chest and breast brassy black; the former clothed with black hairs, the latter with shorter hoary hairs: abdomen pitchy-bronze, clothed with short black hairs: legs pitchy, hairy; four front knees tawny: wings slightly gray; wing-ribs and poisers ferruginous; veins black. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**SYRPHUS** *Rosarum*, *Fabr. Ent. Syst.* iv. 307, 109. *Meig. Dipt.* iii. 338, 94. *Macq. Hist. Nat. Dipt.* i. 545, 39. *Scæva Rosarum*, *Fabr. Syst. Antl.* 251, 11. *Panz. Faun. Germ.* 108, 14. *Musca Rosarum*, *Gmel. Ed. Syst. Nat.* v. 2877, 366.

a. England.

b. France.

c. ———? From Mr. Children's collection.

Group V. *Platycheirus*, *St. Fargeau* and *Serville*.

**SYRPHUS** *granditarsa*. *Musca granditarsa*, *Forst. Cent.* i. 99. *Stew. El.* ii. 263. *Turt.* iii. 626. *M. brassicaria*, *Panz. Faun. Germ.* 20, 20. *Syrphus lobatus*, *Meig. Dipt.* iii. 336. *S. Ocymi*, *Fabr. Ent. Syst.* iv. 309, 114. *Panz. Faun. Germ.* 82, 18. *Meig. Dipt.* iii. 337, 93. *Macq. Hist. Nat. Dipt.* i. 546, 40. *Schiodte, Kroyer, Nat. Tids.* iv. 326, 9. *Scæva Ocymi*, *Fabr. Syst. Antl.* 252, 18. *Fall. Syrph.* 48, 23. *Zett. Ins.* 607, 36.

a. England.

b. ———? From Mr. Children's collection.

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**SYRPHUS** *albimanus*, *Fabr. Sp. Ins.* ii. 434, 63. *Ent. Syst.* iv. 310, 117. *Meig. Dipt.* iii. 333, 87. *Macq. Hist. Nat. Dipt.* i. 546, 41. *Schiodte, Kroyer, Nat. Tids.* iv. 326, 8. *Musca albimanus*, *Gmel. Ed. Syst. Nat.* v. 2876, 364. *Stew. El.* ii. 266. *Turt.* iii. 651. *Scæva albimana*, *Fabr. Syst. Antl.* 253, 23. *Zett. Ins. Lapp.* 607, 35.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

*SYRPHUS scutatus*, *Meig. Dipt.* iii. 333, 88. *Macq. Hist. Nat. Dipt.* i. 546, 42. *Schiodte, Kroyer, Nat. Tids.* iv. 322, 3. *M. albimana*? *Turt.* iii. 651. *Scæva albimana*, *Fall. Syrph.* 46, 19.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. ———?

*SYRPHUS peltatus*, *Meig. Dipt.* iii. 334, 89, *pl.* 30, *f.* 31, 32. *Macq. Hist. Nat. Dipt.* i. 547, 43. *Schiodte, Kroyer, Nat. Tids.* iv. 322, 2. *Scæva albimana*, var., *Fall. Syrph.* 46, 19. *S. peltata*, *Zett. Ins. Lapp.* 606, 30. *Musca navus*? *Harr. Ex.* 109, *pl.* 32, *f.* 46.

a. England.

*SYRPHUS clypeatus*, *Meig. Dipt.* iii. 335, 90. *Macq. Hist. Nat. Dipt.* i. 547, 44. *Schiodte, Kroyer, Nat. Tids.* iv. 323, 4. *Scæva albimana*, var., *Fall. Syrph.* 46, 19. *S. clypeata*, *Zett. Ins. Lapp.* 606, 31.

a. England.

*SYRPHUS manicatus*, *Meig. Dipt.* iii. 336, 91. *Macq. Hist. Nat. Dipt.* i. 548, 46. *Schiodte, Kroyer, Nat. Tids.* iv. 321, 1. *Scæva manicata*, *Zett. Ins. Lapp.* 606, 33.

a. England.

#### Group VI. Sphærophoria, *St. Fargeau* and *Serville*.

*SYRPHUS scriptus*, *Fabr. Sp. Ins.* ii. *Ent. Syst.* iv. 308, 113. *Latr. Gen. Crust.* iv. 325. *Meig. Dipt.* iii. 324, 73. *Musca scripta*, *Linn. Syst. Nat.* ii. 987. *Faun. Suec.* 1820. *Gmel. Ed. Syst. Nat.* v. 2876, 54. *Stew. El.* ii. 266. *Turt.* iii. 651, *M. invisito*, *Harr. Ex.* 83, *pl.* 24, *f.* 31. *Musca*, &c., *Geoff. Ins.* ii. 514, 41. *Roesel, Ins.* ii. *Musc.* *pl.* 6. *Schell. Gen. Mouch.* *pl.* 10, *f.* 2. *Scæva scripta*, *Fabr. Syst. Antl.* 253, 17. *Zett. Ins. Lapp.* 605, 28. *S. Menthastri*, *Fall. Syrph.* 48, 24. *Sphærophoria scripta*, *Macq. Hist. Nat. Dipt.* i. 551, 1.

a. England.

b. France.

c. ———? From Mr Children's collection.

d. Aix-la-Chapelle. Presented by F. Walker, Esq.

e. Nova Scotia. From Lieut. Redman's collection.

*SYRPHUS tæniatus*, *Meig. Dipt.* iii. 325, 74, *pl.* 30, *f.* 35, 36. *Scæva Menthastri*, var., *Fall. Dipt. Suec. Syrph.* 48, 24. *S. tæniata*, *Zett. Ins. Lapp.* 605, 27. *Sphærophoria tæniata*, *Macq. Hist. Nat. Dipt.* 551, 2.

a. England.

**SYRPHUS Menthastri**, *Fabr. Sp. Ins.* ii. 433, 59. *Ent. Syst.* iv. 308, 111. *Latr. Gen. Crust.* iv. 325. *Meig. Dipt.* iii. 325, 75. *Musca Menthastri*, *Linn. Faun. Suec.* 1619. *Deg. Ins.* vi. 53, 10. *Gmel. Ed. Syst. Nat.* v. 2876, 53. *Schrank, Ins. Austr.* 909. *Faun. Boic.* iii. 2409. *Scæva Menthastri*, *Fabr. Syst. Antl.* 251, 13. *Sphærophoria Menthastri*, *Macq. Hist. Nat. Dipt.* i. 551, 3.

- a. England.
- b. France.
- c. ———? From Mr. Children's collection.
- d. Alten, Finmark. Presented by F. Walker, Esq.
- e. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- f. Nova Scotia. From Lieut. Redman's collection.
- g. New York. Presented by the Entomological Club.
- h. Trenton Falls. Presented by E. Doubleday, Esq.

**SYRPHUS Melissæ**, *Meig. Dipt.* iii. 326, 76. *Scæva Menthastri*, var., *Fall. Dipt. Suec. Syrph.* 42, 24. *S. Melissæ*, *Zett. Ins. Lapp.* 606, 29. *Sphærophoria Melissæ*, *Macq. Hist. Nat. Dipt.* i. 552, 7.

- a. England.
- b. France.
- c. Alten, Finmark. Presented by F. Walker, Esq.
- d. ———? From Mr. Children's collection.

**SYRPHUS pictus**, *Meig. Dipt.* iii. 326, 77. *Sphærophoria picta*, *Macq. Hist. Nat. Dipt.* i. 553, 8.

- a. ———?

**SYRPHUS hieroglyphicus**, *Megerle, Meig. Dipt.* iii. 327, 78.

- a. Aix-la-Chapelle. Presented by F. Walker, Esq.
- b. ———? From Mr. Children's collection.
- c. Nova Scotia.

**SYRPHUS Ropalus**, *White, Zool. Voy. Erebus and Terror. Fem.*—*Fulvus, capitis thoracisque discis æneis, abdominis nigri fasciis quatuor luteis, 1<sup>o</sup> et 4<sup>o</sup> interruptis, antennis pedibusque fulvis, alis limpidis.*

Head tawny, coppery on the crown: eyes red: feelers tawny; bristle black: chest coppery; sides tawny; scutcheon orange; breast hoary: abdomen black, narrow, linear, orange on each side of the base, adorned with four broad orange bands, of which the first and the fourth are interrupted along the mid-back: legs tawny:

wings colourless; wing-ribs and poisers tawny; veins black, tawny towards the base. Length of the body 4 lines; of the wings 7 lines.

a. New Zealand. Presented by Dr. Sinclair.

*SYRPHUS* Bacchides, n. s., fem. *Aneo-viridis*, capite thoracis lateribus scutelloque flavis, abdomine nigro, basi fasciis duabus dorsi vittisque nonnullis apicis flavis ornato, pedibus fulvis, alis limpidis.

Allied to *S. geminatus*. Head yellow, with a bright coppery stripe on the crown: mouth and feelers tawny: eyes red: chest and breast coppery green, clothed with short black hairs; sides and scutcheon yellow, disk of the latter tawny: abdomen black, yellow at the base, and from thence to the middle on each side adorned with two yellow bands, the second band is slightly arched and broader than the first; on the last segment but one there are four stripes, of which the inner pair are narrow and straight, the outer pair are broad and oblique; the last segment is adorned with four straight stripes, of which the side pair are broader than the inner pair: legs pale tawny; feet and hind legs shaded with darker colour: wings colourless; wing-ribs and poisers tawny; veins black. Length of the body 3 lines; of the wings 5 lines.

a. Florida. Presented by E. Doubleday, Esq.

### SERICOMYIA, Meigen.

*SERICOMYIA borealis*, Meig. Dipt. iii. 343, 2, pl. 31, f. 9. Macq. Hist. Nat. Dipt. i. 496, 3. Zett. Ins. Lapp. 590, 1. Musca lappona, Deg. Ins. vi. 61, 6, pl. 8, f. 14. Musca silentis, Harr. Ex. 89, pl. 15, f. 14. Sericomomyia lapponum, Latr. Gen. Crust. iv. 322. Syrphus borealis, Fall. Syrph. 20, 7.

a. England.

b. ———? From Mr. Children's collection.

*SERICOMYIA lappona*, Latr. Gen. Crust. iv. 322. Cons. Gén. 443. Meig. Dipt. iii. 344, 3. Macq. Hist. Nat. Dipt. i. 496, 4. Zett. Ins. Lapp. 590, 2. Musca lappona, Linn. Syst. Nat. ii. 983. Faun. Suec. 1794. Gmel. Ed. Syst. Nat. v. 2867, 27. Syrphus lapponum, Fabr. Sp. Ins. ii. 422, 4. Ent. Syst. iv. 280, 7. Syst. Antl. 226, 7. Fall. Syrph. 208.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**SERICOMYIA mussitans**, Meig. *Dipt.* iii. 345, 4. Macq. *Hist. Nat. Dipt.* i. 496, 2, pl. 11, f. 11. *Musca mussitans*, Gmel. *Ed. Syst. Nat.* v. 2867, 327. *M. fulvus*, Larr. *Ex.* 80, pl. 24, f. 22. *Syrphus mussitans*, Fabr. *Sp. Ins.* ii. 422, 3. *Ent. Syst.* iv. 279, 6. *Syst. Antl.* 225, 6. Panz. *Faun. Germ.* i. 15. *Fall. Syrph.* 18, 4.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

**SERICOMYIA militaris**, Barnston's MSS., fem. *Nigra, scutello piceo margine postico ferrugineo, abdomine maculis sex transversis fulvis, antennis nigris, pedibus ferrugineis, femoribus nigris, alis cinereis ad costam fulvis apice fusco nebulosis.*

Body black, shining, thickly clothed with short pale tawny hairs: head, with the exception of the crown and of a stripe between the feelers and the mouth, covered with pale yellow down: mouth black: feelers black; bristle feathered: eyes black; all the facets small: each side of the chest adorned with two tufts of yellow hairs, one before, the other behind the wing; scutcheon pitchy, clothed with black hairs, ferruginous along the hind border: abdomen nearly oval, rather longer and broader than the chest; hind borders of the segments fringed with short pale yellow hairs; second, third, and fourth segments adorned with tawny bands on each side; first pair of bands short; second pair long; third pair rather shorter than the second: legs ferruginous, clothed with short tawny hairs; hips and thighs black, clothed with black hairs; feet beset with very short black bristles, black towards the tips; foot-cushions tawny; claws black, ferruginous towards the base: wings gray, clouded with brown at the tip of the fore border, which is tawny for more than half the length from the base; wing-ribs black; veins ferruginous; poisers pitchy. Length of the body 6—6½ lines; of the wings 12—13 lines.

Var. β. First pair of abdominal bands reduced to two dots.

Var. γ. Like var. β: second pair of abdominal bands much shorter than the third.

Var. δ. First pair of abdominal bands wanting.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

*SERICOMYIA filia*, n. s., fem. *Nigra, abdomine nigro-æneo fasciis tribus interruptis fulvis, antennis nigris, pedibus fulvis, femoribus basi tarsisque apice piceis, alis limpidis ad costam subfuscis.*

Body black, thickly clothed with short yellow hairs: head yellow, black on the crown, and having a black stripe between the feelers and the mouth, which is black; sides of the peristoma pitchy; feelers black: eyes pitchy, slightly bronzed; facets on the fore part of the crown larger than those elsewhere: abdomen nearly oval, slightly bronzed, rather longer and broader than the chest, adorned with three tawny bands, which are interrupted on the back: legs tawny, clothed with short yellow hairs; hips, middle thighs at the base, and fore thighs from the base to the middle pitchy; feet pitchy towards the tips; claws and foot-cushions tawny; tips of claws black: wings colourless, slightly brown along the fore borders from the base to beyond the middle; wing-ribs and poisers pitchy: veins tawny. Length of the body  $4\frac{1}{2}$ —5 lines; of the wings 10—11 lines.

Var.  $\beta$ . The brown on the fore border of the wing extends to the tip, which is dark gray.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.

*SERICOMYIA 6-fasciata*, Barnston's MSS., mas. *Nigra, thorace nigro-æneo, abdomine fasciis tribus interruptis flavis, antennis ferrugineis, pedibus nigris, genubus tibiis basi tarsisque ferrugineis, alis subfulvis.*

Body black, thinly clothed with short tawny hairs: head covered with pale yellowish down, beset on the crown with a few black hairs; a black stripe extends from the crown to the mouth, which is also black: feelers ferruginous; first and second joints black; bristle feathered, black towards the tip: eyes black; facets on the fore part of the crown rather larger than those elsewhere: chest slightly bronzed, with a small hoary band on each side of the front: abdomen deep black, not shining, nearly oval, thinly clothed with short tawny hairs; knees, feet, and tips of shanks ferruginous; tips of feet pitchy; foot-cushions tawny; claws ferruginous with black tips: wings slightly tawny, darker at the base and along the fore borders; wing-ribs and veins black, the latter ferruginous towards the base; poisers pale tawny. Length of the body 6 lines; of the wings 11 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

CRIORHINA, *Hoffmansegg*.

CRIORHINA apicata, *Macq. Hist. Nat. Dipt.* i. 497, 1. *Musca apiformis*, *Schrank, Ins. Austr.* 933. *Faun. Boic.* iii. 2436. *Gmel. Ed. Syst. Nat.* v. 2865, 296. *Milesia apicata*, *Meig. Dipt.* iii. 236, 10.

a. England.

CRIORHINA oxyacanthæ, *Macq. Hist. Nat. Dipt.* i. 498, 3. *Milesia oxyacanthæ*, *Meig. Dipt.* iii. 237, 12.

a. England.

b. France.

c. ———? From Mr. Children's collection.

CRIORHINA asilica, *Macq. Hist. Nat. Dipt.* i. 498, 5. *Syrphus asilicus*, *Fall. Syrph.* 22, 10. *Milesia asilica*, *Meig. Dipt.* iii. 238, 14.

a. England.

b. France.

c. ———? From Mr. Children's collection.

CRIORHINA ruficauda, *Macq. Hist. Nat. Dipt.* i. 498, 7. *Musca ruficaudis*, *Deg. Ins.* vi. 56, 17. *Milesia ruficauda*, *Meig. Dipt.* iii. 239, 15.

a. England.

TROPIDIA, *Meigen*.

TROPIDIA milesiformis, *Meig. Dipt.* iii. 346, pl. 31, f. 14. *Macq. Hist. Nat. Dipt.* i. 518, 1. *T. rufomaculatus*, var.? *Curt. Brit. Ent.* 401. *Musca scitus*, *Harr. Ex.* 107, pl. 32, f. 41. *Eristalis milesiformis*, *Fall. Syrph.* 52.

a. England.

b. France.

c. ———? From Mr. Children's collection.

MERODON, *Latreille*.

MERODON clavipes, *Fabr. Syst. Antl.* 195, 1. *Latr. Cons. Gén.* 443. *Meig. Dipt.* iii. 351, pl. 31, f. 22. *Curt. Brit. Ent.* ii. 98. *Macq. Hist. Nat. Dipt.* i. 513, 1, pl. 11, f. 20. *Syrphus clavipes*, *Fabr. Sp. Ins.* ii. 427, 29. *Ent. Syst.* iv. 292, 50. *Musca curvipes*, *Gmel. Ed. Syst. Nat.* v. 2871, 347. *Milesia clavipes*, *Latr. Gen. Crust.* iv. 331.

a. England.

b. France.

c. Martigny, Switzerland. Presented by F. Walker, Esq.

d. ———?



**MERODON** Narcissi, *Meig. Dipt.* iii. 354, 6. *Macq. Hist. Nat. Dipt.* i. 514, 5. *St. Farg. et Serv. Ency. Meth.* x. *Eristalis* Narcissi, *Fabr. Syst. Antl.* 239, 32.

Var.? *Merodon* equestris, *Fabr. Syst. Antl.* 196, 2. *Meig. Dipt.* iii. 352, 2. *Macq. Hist. Nat. Dipt.* i. 514, 3. *Syrphus* equestris, *Fabr. Ent. Syst.* iv. 292, 51. *Panz. Faun. Germ.* 60, 1. *S. fusiformis*, *Schell. Gen. Mouch. pl.* 11, f. 1. *Reaum. Ins.* iv. pl. 34, f. 9, 10.

Var.? *Merodon* nobilis, *Meig. Dipt.* iii. 353, 3. *Macq. Hist. Nat. Dipt.* i. 514, 4.

Var.? *Merodon* transversalis, *Meig. Dipt.* iii. 354, 4. *Syrphus* equestris, mas., *Panz. Faun. Germ.* 60, 2.

Var.? *Merodon* constans, *Hoffmansegg, Meig. Dipt.* iii. 354, 5.

Var.? *Merodon* ferrugineus, *Meig. Dipt.* iii. 355, 7. *Eristalis* ferrugineus, *Fabr. Syst. Antl.* 242, 35.

Var.? *Merodon* flavicans, *Meig. Dipt.* iii. 355, 8. *Syrphus* flavicans, *Fabr. Ent. Syst.* iv. 292, 52. *Eristalis* flavicans, *Fabr. Syst. Antl.* 242, 40.

Var.? *Merodon* fulvus, *Macq. Hist. Nat. Dipt.* i. 514, 2.  
a. France.

**MERODON** parietum, *Hoffmansegg, Meig. Dipt.* iii. 360, 17.  
a. ———?

**MERODON** Mœnium, *Hoffmansegg, Meig. Dipt.* iii. 362, 19.  
a. France.

**MERODON** viaticus, *Fabr. Syst. Antl.* 197, 6. *Meig. Dipt.* iii. 364, 22.  
a. ———?

**MERODON** aureus, *Fabr. Syst. Antl.* 198, 8. *Meig. Dipt.* iii. 366, 26.  
a. France.

**MERODON** curvipes, *Wied. Auss. Zweif.* ii. 149, 3.  
a. ———? Presented by the Entomological Club.  
b. Nova Scotia. From Lieut. Redman's collection.

**MERODON** bardus, *Say*.  
a. New Hampshire. Presented by the Entomological Club.

**MERODON morosus**, n. s., fem. *Niger, scutello fulvo, abdominis fasciis subinterruptis cinereis, antennis pedibusque nigris, genubus ferrugineis, alis albidis.*

Body black, punctured, rather dull, clothed with pale tawny hairs: head clothed with whitish down in front, prominent about the mouth, which is black: feelers black, their bristles ferruginous: eyes dark red: chest more thickly clothed than is the breast; scutcheon tawny, clothed with longer hairs: segments of the abdomen adorned with gray bands, whose hind borders are much indented in the middle: legs black, clothed with short tawny hairs; knees ferruginous; soles of the feet covered with bright tawny down: wings whitish; wing-ribs ferruginous; veins pale tawny; poisers yellow. Length of the body 6 lines; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**MERODON contrarius**, n. s., mas. et fem. *Niger, abdominis fasciis interruptis cinereis, antennis rufis, pedibus nigris, alis nigro-cinereis.*

Body black, dull, clothed with black hairs: head a little broader than the chest; front bright tawny: mouth black: feelers red: eyes brassy black; all the facets small: fore borders of the abdominal segments adorned with interrupted gray bands: legs black, clothed with short black hairs; soles of the feet covered with ferruginous down: wings blackish gray; wing-ribs and veins black; poisers pitchy. Length of the body 6 lines; of the wings 10 lines.

a. New Holland.

**MERODON bipartitus**, n. s., fem. *Niger, antennis piceis setis fulvis, pedibus nigris, tibiis basi pedibusque subtus ferrugineis, alis subcinereis fusco ad costam unimaculatis.*

Body black: head shining, clothed with tawny and black hairs, prominent about the mouth, which is black: feelers pitchy; bristle tawny: eyes black; all the facets very small: chest thickly clothed with yellowish white hairs: abdomen linear, shining, a little longer and broader than the chest, thinly clothed with short tawny hairs, covered more thickly towards the tip with black hairs: legs black, clothed with short black hairs; shanks ferruginous towards the base; feet ferruginous beneath; claws and foot-cushions tawny; tips of feet black: wings slightly gray, with a small brown spot under the middle of the fore border; wing-ribs and veins pitchy; veins tawny towards the base and along the fore borders; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

a. Georgia. From Mr. Abbot's collection.

**MERODON** Bautias, n. s., mas. et fem. *Niger, pilis fulvis vestitus, abdominis lateribus nigro-pilosis, antennis pedibusque nigris, tarsis fulvis, alis cinereis ad costam subfuscis.*

Allied to *Imatisma posticata*, Macq. *Dipt. Exot.* ii. 68, 1, pl. 12, f. 2. *Eristalis posticatus*, Fabr. *Syst. Antl.* 237, 21. *Wied. Auss. Zweif.* ii. 194, 62. Body broad, thick, black: head shining, clothed with pale tawny hairs, not so broad as the chest; clypeus large: mouth and feelers black; bristle tawny: eyes black; facets small, those on the fore part of the crown rather larger: chest thickly clothed with pale tawny hairs: abdomen black, obconical, very shining, clothed with black hairs on each side, covered with dark ferruginous bloom, a little longer and narrower than the chest: legs black, clothed with black hairs; feet tawny beneath towards the tips; claws and foot-cushions tawny; tips of claws black; hind thighs toothed, remarkably thick; hind shanks curved, broad, toothed beneath: wings slightly gray, tinged with brown along the fore border, in whose middle there is a small dark brown spot; wing-ribs pitchy; veins black, pitchy towards the base; poisers tawny. Length of the body  $6\frac{1}{2}$ —8 lines; of the wings 13—16 lines.

a. Georgia. From Mr. Abbot's collection.

**MERODON** Balanus, n. s. *Niger, pilis fulvis hirtus, scutello ferrugineo, abdomine basi pilis ferrugineis apice subtusque pilis nigris hirtis, antennis piceis, pedibus nigris, tibiis piceis, tarsis ferrugineis, alis subcinereis.*

Body black: head clothed with black hairs, narrower than the chest: mouth black: feelers pitchy; bristle tawny: eyes bronzed; facets on the fore part of the crown rather larger than elsewhere: chest and breast thickly clothed with bright tawny hairs; scutcheon ferruginous: abdomen slightly decreasing in breadth from the base to the tip, a little longer and broader than the chest, clothed from the base to near the middle with ferruginous hairs, and with black hairs from thence to the tip and on the whole of the underside; legs black, clothed with black and tawny hairs; shanks pitchy: knees and feet ferruginous; foot-cushions tawny; claws black, ferruginous at the base; hind thighs and hind shanks thick, the latter slightly curved: wings slightly tinged with gray; wing-ribs, veins, and poisers pitchy. Length of the body 7 lines; of the wings 15 lines.

a. New York. Presented by E. Doubleday, Esq.

**MERODON umbrifer**, n. s. mas. *Fuscus, scutelli margine postico fulvo, abdominis apice antennisque piceis, pedibus ferrugineis, femoribus tibiisque posticis piceis, alis cinereis basi fulvis disco fuscis.*

Body brown, covered with tawny down: mouth black: feelers pitchy, seated on a protuberance; third joint truncate; bristle tawny, darker towards the tip: eyes bronzed; facets on the fore part of the crown rather larger than those elsewhere: hind border of the scutcheon pale tawny: abdomen obconical, broader, but hardly longer than the chest, pitchy towards the tip: legs ferruginous, partly pitchy, clothed with short tawny and black hairs; hind thighs and hind shanks thick, dark pitchy, the latter slightly curved; foot-cushions tawny; claws black, ferruginous at the base: wings gray, tawny towards the base; a large brown spot on each disk: wing-ribs ferruginous; veins tawny, pitchy towards the tips; poisers tawny. Length of the body 6 lines; of the wings 10 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**MERODON tenebricus**, n. s., fem. *Niger, thoracis vittis quinque canis, scutelli margine postico ferrugineo, abdominis lateribus cano maculatis, segmentorum apicem versus marginibus posticis fulvis, antennis rufis, pedibus piceis, femoribus posticis nigris, tibiis posticis ferrugineis, alis fuscis.*

Body black: head covered with pale dull tawny bloom, clothed with pale yellow hairs; crown black, shining, beset with a few black hairs: mouth black: feelers red: eyes bronzed, bright; all the facets very small: chest thinly clothed with short black hairs, adorned with five hoary stripes; middle stripe very slender; hind border of the scutcheon ferruginous; breast clothed with hoary hairs: abdomen short-obconical, not longer than the chest, very thinly clothed with short tawny hairs, adorned on each side with large patches of hoary bloom; hind borders of the last segments tawny: legs pitchy, clothed with short tawny hairs; foot-cushions tawny; claws ferruginous, with black tips; hind thighs black, very thick; hind shanks dark ferruginous, slightly curved: wings brown; wing-ribs and veins pitchy; poisers tawny. Length of the body 4 lines; of the wings 9 lines.

a. ——— ?

## HELOPHILUS, Meigen.

**HELOPHILUS lineatus**, Meig. *Dipt.* iii. 369, 1, pl. 32, f. 7. Macq. *Hist. Nat. Dipt.* i. 511, 6. Zett. *Ins. Lapp.* 696, 3. *Dipt. Scand.* ii. 682, 7. Loew, *Ent. Zeit. Stett.* vi. 167, 12. *Curt. Brit. Ent.* 429, 1. *Rhingia lineata*, Fabr. *Ent. Syst.* iv. 375, 2. *Syst. Antl.* 223, 2. *R. muscaria*, Fabr. *Ent. Syst.* iv. 375, 3. *Syst. Antl.* 223, 3. Panz. *Faun. Germ.* xx. 24. *Syrphus lineatus*, Fall. *Syrph.* 31, 28. *Musca femorata*, Panz. *Faun. Germ. Ed. i.*

a. England.

**HELOPHILUS transfugus**, Meig. *Dipt.* iii. 371, 3. Macq. *Hist. Nat. Dipt.* i. 510, 4. *Curt. Brit. Ent.* 429, 3. *Musca transfuga*, Linn. *Faun. Suec.* 1818. Gmel. *Ed. Syst. Nat.* v. 2875, 52.

a. England.

b. ———? From Mr. Children's collection.

**HELOPHILUS lunulatus**, Meig. *Dipt.* iii. 379, 2, pl. 32, f. 9. Macq. *Hist. Nat. Dipt.* i. 511, 5. Zett. *Dipt. Scand.* ii. 681, 5. Loew, *Ent. Zeit. Stett.* vi. 165, 11. *Curt. Brit. Ent.* 429, 2.

a. England.

**HELOPHILUS camporum**, Meig. *Dipt.* iii. 372, 4.

a. France.

**HELOPHILUS stipatus**, n. s., fem. *Niger, capite flavo, thorace vittis quatuor flavis, scutello fulvo, abdomine cano trifasciato, lateribus fulvo trifasciatis, antennis fulvis apice ferrugineis, pedibus fulvis, femoribus basi nigris, tibiis posticis piceo bifasciatis, tarsis posticis piceis, alis limpidis.*

Head yellow, clothed with yellow hairs; crown clothed with black hairs: eyes dark red: feelers tawny; third joint ferruginous; bristle tawny, with a black tip: chest black, clothed with tawny hairs, adorned with four yellow stripes; scutcheon tawny: abdomen linear, black, with three hoary bands, of which the first is at the base, the second and the third are very indistinct; each side adorned with three curved tawny bands; hind borders of the segments tawny: legs tawny; thighs black towards the base; hind thighs very thick, black, tawny at the tips; hind shanks tawny, with two pitchy bands; hind feet pitchy, tawny towards the base; tips of claws black: wings colourless; wing-ribs tawny; veins pitchy, tawny along the fore borders; poisers yellow. Length of the body 3½ lines; of the wings 6 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

**HELOPHILUS Anaensis**, n. s., fem. *Niger, fronte flava, thoracis vittis duabus cinereis, lateribus scutelloque ferrugineis, abdominis fasciis cinereis vittisque duabus flavis, antennis fulvis, pedibus ferrugineis, tibiis piceo vittatis, alis subcinereis.*

Body black: head a little broader than the chest, thickly clothed with dark tawny hairs, yellow in front: eyes dark red: mouth piceous: feelers tawny; bristle piceous: chest clothed with short tawny hairs, adorned with two gray stripes; sides dark ferruginous; scutcheon ferruginous: abdomen linear, as broad as, and much longer than the chest, adorned with alternate broken and entire gray bands, and with a short yellow stripe on each side of the base: legs ferruginous; hips black; thighs with pitchy streaks; feet pitchy towards the tips; foot-cushions tawny: wings slightly gray; wing-ribs and veins piceous, the latter ferruginous towards the base; poisers pale tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**HELOPHILUS formalis**, n. s., fem. *Niger, scutello fulvo, abdominis macula utrinque ventrique fulvis, fasciis tribus flavis, apice ferrugineo, antennis piceis basi ferrugineis, pedibus nigris, tibiis fulvis, femoribus posticis nigro-æneis, tibiis posticis ferrugineis, alis cinereis.*

Body black: head covered with tawny down, clothed with tawny hairs: mouth ferruginous: feelers pitchy, ferruginous at the base; bristle ferruginous: chest and breast thickly clothed with short tawny hairs; scutcheon tawny: abdomen nearly linear, a little shorter and narrower than the chest, thinly clothed with short tawny hairs, adorned on each side with a large tawny spot and with three curved pale yellow bands, dark ferruginous towards the tip; underside tawny: legs black, clothed with short tawny hairs; shanks and feet covered beneath with tawny down; shanks tawny, black towards the tips; underside tawny: legs black, clothed with short tawny hairs; shanks and feet covered beneath with tawny down; shanks tawny, black towards the tips; claws and foot-cushions tawny; claws black towards the tips; hind thighs brassy black, rather thick; hind shanks ferruginous, curved: wings gray; wing-ribs pitchy; veins black, tawny towards the base; poisers pale tawny. Length of the body 4 lines; of the wings 7 lines.

a. Mexico. Presented by E. R. Coffin, Esq.

**HELOPHILUS sejunctus**, n. s., mas. *Niger, abdominis segmentorum lateribus ferrugineo maculatis, antennis pedibusque fulvis, tibiis posticis femoribusque piceis, illis ferrugineo cinctis, femoribus posticis cyaneis, alis limpidis.*

Body black: head covered in front with a hoary bloom, tawny around the mouth, which is black with a tawny tip: feelers tawny: eyes red: sides of the abdominal segments adorned with ferruginous spots: legs tawny; hips black; thighs and hind shanks pitchy, the latter adorned with ferruginous bands; hind thighs blue, very thick: wings colourless; wing-ribs piceous; veins black. Length of the body 4 lines; of the wings 6 lines.

a. Senegal.

**HELOPHILUS Longus**, n. s., mas. *Niger, fronte flava, thoracis lateribus scutellique margine postico fulvis, abdominis fasciis flavis, antennis pedibusque fulvis, femoribus basi piceis, pedibus posticis nigris, alis subfuscis.*

Body black: head broader than the chest, covered behind and beneath with hoary down, yellow, and adorned with white shining down in front: eyes red; facets above successively increasing in size from the hind part to the fore part: mouth pitchy, with a tawny tip; palpi also pitchy, with tawny tips: feelers tawny: chest very thinly clothed with short tawny hairs; its sides and the hind border of the scutcheon are tawny: abdomen tapering from the base to the tip, a little narrower than the chest, and nearly twice its length; hind borders of the segments yellow; segments from the first to the third adorned with broad yellow bands, the first entire, the second and third interrupted; the first and the second connected on each side: legs tawny; thighs at the base and hips piceous; hind legs black, their thighs armed near the tips beneath with two strong teeth: wings slightly brown; wing-ribs piceous; veins black, piceous towards the base; poisers tawny. Length of the body 6 lines; of the wings 10 lines.

a. Congo.

**HELOPHILUS quadrivittatus.** *Eristalis quadrivittatus, Wied. Auss. Zweif. ii. 168, 22.*

a. East Indies. From Archdeacon Clerk's collection.

b. ———? From Mr. Children's collection.

c. ———?

**HELOPHILUS hilaris**, n. s. *Niger, thorace vittis quatuor flavis, scutello abdomineque fulvis, hoc ferrugineo fasciato, segmentis 2<sup>o</sup> nigro vittato 3<sup>o</sup> ferrugineo vittato, pedibus nigris, tarsis intermedii tibiisque anterioribus basi fulvis, alis subfulvis, apice marginique postico subcinereis.*

Head wanting: chest black, clothed with very short tawny hairs, adorned with four yellow stripes; scutcheon tawny: breast black, clothed with tawny hairs, adorned with a tawny spot on each side: abdomen obconical, bright tawny, much longer and a little broader than the chest: hind borders of the segments adorned with ferruginous bands, which are widened in the middle, and acquire a pitchy colour on each side; tip black; second segment adorned with a black stripe; third segment with a ferruginous stripe: legs black, clothed with short tawny hairs; middle feet and four front shanks tawny towards the base; claws and foot-cushions tawny; tips of claws black; hind thighs rather thick; hind shanks slightly curved: wings slightly tawny, pale gray at the tips and along the hind borders; wing-ribs and veins tawny, the latter pitchy towards the tips; poisers yellow. Length of the body 5 lines; of the wings 10 lines.

a. ——— ?

**HELOPHILUS Bengalensis.** *Eristalis Bengalensis*, Wied. Zool. Mag. iii. 16, 22. *Auss. Zweif.* ii. 167, 21. *Macq. Dipt. Exot.* ii. 63, 4.

a. North Bengal. From Miss Campbell's collection.

**HELOPHILUS fasciatus**, *Barnston's MSS.*, fem. *Niger, capitis vitta fulva, thoracis vittis quatuor flavis, scutelli fusi margine fulvo, abdominis fasciis quatuor flavis, pedibus fulvis, femoribus basi nigris, tarsis subtus tibiisque ferrugineis, alis subcinereis.*

Body black: head covered with yellow down, clothed with short tawny hairs; crown beset with a few black hairs; a shining tawny stripe between the feelers and the mouth: feelers ferruginous, with a pitchy stripe on the upper side; bristle tawny: eyes pitchy, slightly bronzed; all the facets very small: chest and breast covered with a slight tawny bloom: chest adorned with four yellow stripes; scutcheon tawny, with a pale brown disk: abdomen slightly decreasing in breadth from the base to the tip, longer, but hardly broader than the chest, adorned with four yellow bands; first band very broad, especially on each side, quite interrupted in the middle; second band narrower, almost interrupted; third and fourth band narrow and entire; hind borders of the segments ferruginous; un-



derside mostly yellow: legs tawny, clothed with short tawny hairs; hips and thighs from the base to the middle and hind thighs, except their tips, black; hind thighs rather thick; hind shanks ferruginous, slightly curved, yellow at the base; fore feet and tips of fore shanks pitchy; second, third, and fourth joints of middle feet pitchy: feet ferruginous beneath; claws and foot-cushions tawny; tips of claws black: wings slightly gray; wing-ribs pitchy; veins black, ferruginous towards the base; poisers pale yellow. Length of the body  $5\frac{1}{2}$ —6 lines; of the wings 10—11 lines.

Var.  $\beta$ . A black stripe between the crown of the head and the feelers: all the bands of the abdomen interrupted; hind borders of the segments grayish black: thighs, except their tips, black; fore shanks pitchy from the middle to the tips; middle shanks darker at the tips; hind shanks tawny, with a pitchy band near the base, black from the middle to the tips; feet pitchy.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

HELOPHILUS Chilensis, Walker, Linn. Trans. xvii. 344, 35. Doli-chogyna fasciata, Macq. Dipt. Exot. ii. 66, 1, pl. 12, f. 1.

a. Chili. Presented by the Entomological Club.

HELOPHILUS pendulus, Meig. Dipt. iii. 373, 6. Macq. Hist. Nat. Dipt. i. 509, 1. Zett. Ins. Lapp. 595, 1. Dipt. Scand. ii. 676, 1. Loew, Ent. Zeit. Stett. vi. 125. Curt. Brit. Ent. 429, 5. Musca pendula, Linn. Syst. Nat. ii. 984. Faun. Suec. Ed. ii. 1795. Syst. Nat. Ed. xii. 984, 28. Gmel. Syst. Nat. v. 2868, 28. Deg. Ins. vi. 46, 3. Schrank, Faun. Boic. iii. 2425. Ins. Austr. 901. Don. Brit. Ins. i. 69, pl. 31, f. 2. Stew, El. ii. 264. Turt. iii. 638. Shaw, Gen. Zool. vi. 382, pl. 105, f. inf. M. trilineata, Harr. Ex. 58, pl. 15, f. 9. Musca, &c., Geoff. Ins. ii. 513, 39. Schell. Gen. Mouch. pl. 9, f. 2. Réaum. Ins. vi. pl. 31, f. 9—11. Schæff. Icon. pl. 129, f. 3, 4, pl. 130, f. 2. Syrphus pendulus, Fabr. Sp. Ins. ii. 423, 10. Ent. Syst. iv. 282, 17. Rossi, Faun. Etrusc. ii. 438, 1450. Panz. Faun. Germ. xx. 21. Fall. Syrph. 30, 26. Elophilus pendulus, Latr. Gen. Crust. iv. 324.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**HELOPHILUS** Latro, *Barnston's MSS.*, fem. *Niger, thoracis rittis duabus dorsalibus canis totidemque lateralibus fulvis, scutello fusco margine postico fulvo, abdominis maculis utrinque tribus cano-fulvis, antennis piceis, pedibus nigris, tibiis basi fulvis, alis cinereis.*

Body black: head clothed with pale tawny down and hairs; crown beset with black hairs: mouth black: feelers pitchy: eyes dark red, partly black; the facets on the fore part of the crown rather larger than those elsewhere: chest and breast clothed with short tawny hairs; chest adorned with two hoary stripes, and on each side with a tawny stripe; scutcheon shining, pale brown, tawny along the hind border: abdomen nearly oval, shining, rather longer and broader than the chest, thinly clothed with short tawny hairs, adorned with three tawny spots on each side; first pair of spots triangular, very large, their tips on the back hoary; second pair of spots much smaller, partly occupied by ferruginous marks hoary on the back; third pair still smaller, tawny on the sides of the abdomen, hoary on the back: legs black, clothed with short black hairs; shanks tawny at the base; feet clothed beneath with tawny down; claws ferruginous, with black tips; foot-cushions tawny; hind thighs rather thick; hind shanks slightly curved; wings gray; wing-ribs pitchy; veins black, ferruginous towards the base; poises pale yellow. Length of the body 5—5½ lines; of the wings 9—18 lines.

Var.  $\beta$ . Second pair of abdominal spots without ferruginous marks.

Var.  $\gamma$ . Shanks tawny for two-thirds of the length from the base; middle shanks tawny for two-thirds of their length from the base.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.

**HELOPHILUS trilineatus.** *Eristalis trilineatus*, *Wied. Auss. Zweif.* ii. 168. *Syrphus trilineatus*, *Fabr. Syst. Ent.* 766, 16. *Ent. Syst.* iv. 289, 39. *Syst. Antl.* 238, 27.

- a. Port Nicholson, New Zealand. From Mr. Earl's collection.
- b. New Zealand. Presented by Dr. Sinclair.
- c. New Zealand. From Mr. Pelerine's collection.
- d. New Zealand. From Sir J. Bank's collection.

**HELOPHILUS ineptus**, n. s. *Fuscus, capite flavo, thoracis vittis duabus canis lateribusque flavis, scutelli margine postico fulvo, abdomine æneo, lateribus basi fulvo maculatis, pedibus piceis, tibiis basi fulvis, alis subcinereis.*

Head yellow, black on the crown and about the base of the feelers: eyes pitchy; all the facets very small: mouth and feelers black; bristle of the feelers naked: chest dark brown, clothed with black hairs, adorned with two hoary stripes on the back, and with a yellow stripe on each side, having a brassy hue towards the hinder part, especially on the scutcheon, whose hind border is tawny: abdomen brassy, oval, nearly flat, a little broader and shorter than the chest, clothed with tawny hairs, adorned with a large tawny spot on each side of the base: legs pitchy, clothed with tawny hairs; shanks tawny towards the base; claws and foot-cushions tawny; tips of claws black: hind thighs slightly thickened: wings slightly gray: wing-ribs pitchy; veins black. Length of the body 5 lines; of the wings 10 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

**HELOPHILUS Agerinus**, n. s., fem. *Niger, thorace vittis duabus canis, scutello rufo, abdomine maculis canis, antennis rufis, pedibus nigris, genubus ferrugineis, alis limpidis basi fuscis.*

Body black: head dark red, marked with black on the crown, prominent about the mouth, which is black: feelers red, black towards the base: eyes pitchy, slightly bronzed: sides of the chest and of the breast dark red; chest adorned with two narrow hoary stripes; breast and sides of the chest covered with hoary bloom; scutcheon dark red, gibbous, slightly furrowed lengthwise: abdomen nearly elliptical, deep black, rather shorter and broader than the chest; each segment adorned with two large patches of hoary down; hind borders of the segments shining: legs black; knees ferruginous; feet covered beneath with ferruginous down; claws and foot-cushions ferruginous; tips of claws black: wings colourless, dark brown at the base, slightly tinged with brown below the middle of the fore border; wing-ribs pitchy; veins black, pitchy towards the base; poisers pitchy. Length of the body 6 lines; of the wings 12 lines.

a. ——— ?

**HELOPHILUS scutellaris**. *Eristalis scutellaris*, Wied. *Auss. Zweif.* ii. 159, 11. *Macq. Dipt. Exot.* ii. 41, 17. *Milesia scutellaris*, *Fabr. Syst. Antl.* 190, 11.

a. ——— ?

- HELOPHILUS crassipes.** *Eristalis crassipes*, *Fabr. Syst. Antl.* 237, 22. *Wied. Auss. Zweif.* ii. 157, 8. *Macq. Dipt. Exot.* ii. 31, 1, pl. 8, f. 1. *E. pachymerus*, *Wied. Zool. Mag.* iii. 17, 24.  
*a.* South Africa. Presented by Dr. A. Smith.  
*b.* ——— ?

**HELOPHILUS Æsacus**, n. s., mas. *Fulvus, pectore cinereo, abdomine rufo-fusco, apice rufo, antennis pedibusque piceis, genubus rufis, alis subcinereis basi et ad costam fulvis macula magna subcostali fusca.*

Body tawny: head white in front; clypeus prominent; a shining dark ferruginous space about the base of the feelers, and a spot of the same colour between them and the clypeus: mouth pitchy: feelers pitchy; bristle tawny: eyes black; facets on the fore part of the crown larger than those elsewhere: chest thickly clothed with tawny down; breast grayish: abdomen obconical, reddish brown, covered with dark tawny bloom, as broad as the chest and much longer, red at the tip: legs pitchy, clothed with short black hairs; knees red; foot-cushions dull tawny; claws red, with black tips: wings slightly gray, bright tawny at the base, tawny along the fore-border, at two-thirds of whose length there is a large brown spot; wing-ribs and veins bright tawny, the latter pitchy in the gray part of the wing; poisers tawny. Length of the body 6 lines; of the wings 10 lines.

- a.* Sierra Leone. Presented by the Rev. D. F. Morgan.

### ERISTALIS, Latreille.

**ERISTALIS sepulcralis**, *Fabr. Syst. Antl.* 245, 61. *Schrank, Faun. Boic.* iii. 2432. *Meig. Dipt.* iii. 383, 1. *Macq. Hist. Nat. Dipt.* i. 506, 17. *Musca sepulcralis*, *Linn. Faun. Suec.* 1835. *Syst. Nat.* ii. 991. *Gmel. Ed. Syst. Nat.* v. 2878, 73. *M. interpunctus*, *Harr. Ex.* 59, pl. 15, f. 11. *M. ater*, *Harr. Ex.* 58, pl. 15, f. 11. (fem.) *Syrphus sepulcralis*, *Fabr. Sp. Ins.* ii. 431, 51. *Ent. Syst.* iv. 303, 91. *S. tristis*, *Fabr. Ent. Syst.* iv. 303, 92. *Panz. Faun. Germ.* lxxxii. 16. *Fall. Syrph.* 29, 23. *Eristalis tristis*, *Fabr. Syst. Antl.* 245, 62. *Elophilus tristis*, *Latr. Gen. Crust.* iv. 324.

- a.* England.  
*b.* France.  
*c.* ——— ? From Mr. Children's collection.

*ERISTALIS æneus*, *Fabr. Syst. Antl.* 244, 57. *Meig. Dipt.* iii. 384, 2. *Macq. Hist. Nat. Dipt.* i. 506, 16. *Musca melanius*? *Harr. Ex.* 59, pl. 16, f. 12. *Syrphus æneus*, *Fabr. Ent. Syst.* iv. 302, 88. *Panz. Faun. Germ.* lxxx. 15. *Fall. Syrph.* 28, 22. *Elophilus æneus*, *Latr. Gen. Crust.* iv. 324. *Milesia ænea*, *Latr. Gen. Crust.* iv. 332.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*ERISTALIS tenax*, *Fabr. Syst. Antl.* 238, 24. *Meig. Dipt.* iii. 385, 4. *Macq. Hist. Nat. Dipt.* i. 504, 11. *Musca tenax*, *Linn. Syst. Nat.* ii. 984. *Faun. Suec.* 1799. *Gmel. Ed. Syst. Nat.* v. 2870, 32. *Schrank, Faun. Boic.* iii. 2427. *Harr. Ex.* 41, pl. 10, 111, f. 1. *Berk. Syn.* i. 163. *Stew, El.* ii. 265. *Turt.* iii. 641. *Don. Brit. Ins.* xvi. 66, pl. 574. *Shaw, Gen. Zool.* vi. 380, pl. 146. *Musca*, &c., *Reaum. Ins.* iv. pl. 20, f. 8. *Geoff. Ins.* ii. 520, 52. *Schell. Gen. Mouch.* pl. 9, f. 1. *M. porcina*, *Deg. Ins.* vi. 45, 1. *M. arbustorum*, *Schrank, Ins. Austr.* 902. *Syrphus tenax*, *Fabr. Sp. Ins.* ii. 425, 19. *Ent. Syst.* iv. 286, 36. *Panz. Faun. Germ.* xiv. 23, 24. *Fall. Syrph.* 25, 17. *Zett. Ins. Lapp.* 594, 7. *Elophilus tenax*, *Latr. Gen. Crust.* iv. 324. *Cons. Gén.* 443.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*ERISTALIS similis*, *Meig. Dipt.* iii. 392, 13. *Macq. Hist. Nat. Dipt.* i. 502, 2, pl. 11, f. 14. *Syrphus similis*, *Fall. Syrph.* 25, 16,

a. England.

b. France.

c. ———?

d. ———? From Mr. Children's collection.

*ERISTALIS ridens*, n. s., fem. *Nigro-æneus*, *thoracis vittis quinque pectoreque canis*, *antennis piceis*, *pedibus nigro-æneis*, *tibiis basi fulvis*, *tarsis piceis*, *alis limpidis*,

Body brassy black: head covered with white bloom, clothed with short tawny hairs, and in front with white hairs: feelers pitchy: eyes red, clothed with short pale tawny hairs, covered with numerous little pitchy spots: chest clothed with short tawny hairs, adorned with five hoary stripes; breast hoary: abdomen obconical, hardly broader or longer than the chest, clothed with short tawny

hairs, which fringe the sides and hind borders of the segments: legs brassy black, clothed with short tawny hairs; shanks tawny towards the base; feet pitchy; shanks and feet clothed beneath with ferruginous down; claws and foot-cushions tawny; tips of claws black: wings colourless; wing-ribs ferruginous; veins black, ferruginous towards the base; poisers yellow. Length of the body  $3\frac{1}{2}$ — $4\frac{1}{2}$  lines; of the wings 6—8 lines.

a. Albania. Presented by W. W. Saunders, Esq.

*ERISTALIS lætus*, Wied. *Auss. Zweif.* ii. 192, 58.

a. China. Presented by G. T. Lay, Esq.

*ERISTALIS sincerus*, Harris, *Cat. Ins. Massachusetts*. *E. cupreovitatus?* Wied. *Auss. Zweif.* ii. 190, 54. *Æneus*, *capite nigro*, *thorace vittato*, *antennis ferrugineis*, *pedibus nigris*, *tibiis basi fulvis*, *tarsis piceis*, *alis limpidis*.

Body brassy: head black, clothed with short dark tawny hairs, and in front with white hairs: mouth black: feelers ferruginous: eyes dark red; all the facets small: chest indistinctly striped, clothed with short whitish hairs: abdomen rather brighter than the chest, clothed with short whitish hairs: legs black, clothed with short tawny hairs; feet pitchy; shanks pale tawny towards the base; foot-cushions tawny: wings colourless; wing-ribs and poisers tawny; veins black, tawny towards the base. Length of the body 5 lines; of the wings 9 lines.

a. United States. Presented by the Entomological Club.

*ERISTALIS taphicus*, Wied. *Auss. Zweif.* ii. 191, 57.

a. Teneriffe. Presented by the Entomological Club.

*ERISTALIS incisus*, Wied. *Auss. Zweif.* ii. 155, 5.

a. South Africa. Presented by Dr. A. Smith.

*ERISTALIS assimilis*, n. s., fem. *Nigro-fuscus*, *scutelli margine ferrugineo*, *abdomine basi fulvo*, *antennis piceis*, *pedibus fulvis*, *scemoribus tibiisque posticis piceis*, *alis limpidis*.

Body dark brown: head covered with tawny down, clothed with short tawny hairs; crown clothed with brown hairs, front with hoary hairs: mouth black: feelers pitchy; bristle tawny: eyes pitchy, slightly bronzed; facets on the fore part of the crown larger than those elsewhere: chest and breast covered with dull tawny bloom, thickly clothed with short tawny hairs; border of the scutcheon ferruginous: abdomen obconical, longer and a little broader than the chest, covered with dull tawny bloom, thinly clothed

with short tawny hairs; two large dull tawny spots occupying the sides of the base and almost meeting on the back: legs tawny, clothed with short tawny hairs; hind thighs and hind shanks pitchy; claws and foot-cushions tawny; tips of claws black: wings colourless; wing-ribs pitchy; veins tawny, pitchy towards the tips; poisers pale tawny. Length of the body  $6\frac{1}{2}$ —7 lines; of the wings 13—14 lines.

Var.  $\beta$ . Thighs and hind feet pitchy.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*ERISTALIS Androclus*, n. s., fem. *Niger, thoracis vittis quatuor canis, scutello aeneo margine fulvo, abdomine angulis duabus marginis lateralibus fulvis, antennis pedibusque nigris, tibiis basi flavis, alis subcinereis fusco-fulvo venosis.*

Body black: head clothed with dark tawny hairs; front prominent, covered on each side with tawny down: mouth black: feelers black; bristle tawny, with a black tip: eyes red; their disks partly black; all the facets very small: chest and breast covered with gray bloom, clothed with short tawny hairs; chest adorned with four dull hoary stripes; scutcheon slightly bronzed, its border tawny: abdomen nearly oval, clothed with short tawny hairs, broader and a little longer than the chest, adorned with a large angular tawny spot on each side towards the base: legs black, clothed with short tawny hairs; thighs clothed with short black hairs; shanks yellow towards the base; foot-cushions and claws tawny; tips of claws black: wings slightly gray, brownish tawny along the veins, with the exception of the tips and of the hind borders; a small brown spot on the middle of the fore border; wing-ribs and veins ferruginous; veins black towards the tips; poisers yellow. Length of the body 6 lines; of the wings 12 lines.

Var.  $\beta$ . Veins of the wings not clouded.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERISTALIS torridus*, n. s., fem. *Niger, thorace pube fulva subvittato, scutello fulvo, abdomine fulvo, segmentorum marginibus posticis apiceque nigris, oculis fasciatis, antennis piceis subtus ferrugineis, pedibus fulvis, femoribus nigris, tibiis posticis tarsisque anterioribus piceis, alis limpidis.*

Body black: head covered with hoary bloom, clothed with tawny hairs; front clothed with pale yellow hairs: mouth black: feelers pitchy, ferruginous beneath; bristle tawny, black towards the tip: eyes red, adorned with six black bands; all the facets very

small: chest and breast covered with tawny down, clothed with short tawny hairs; the down on the chest arranged in indistinct stripes; scutcheon tawny: abdomen obconical, longer and a little narrower than the chest, tawny for half the length from the base, with the exception of the hind borders, which, like the rest of the abdomen are black: legs clothed with short yellow hairs; hips and thighs black; tips of thighs yellow; tips of hind thighs red, clothed beneath with short black hairs; shanks tawny, yellow towards the base; hind shanks pitchy, clothed with short black hairs, tawny at the base; feet pitchy; hind feet tawny, with pitchy tips; claws and foot-cushions tawny; tips of claws black: wings colourless; a very small brown spot on the middle of the fore border; wing-ribs tawny; veins black, tawny towards the base; poisers yellow. Length of the body 6 lines; of the wings 11 lines.

a. ———?

*ERISTALIS calidus*, n. s., fem. *Niger, scutello abdomineque fulvis hujus apice vittaeque dilatata nigris, antennis piceis, pedibus flavo-fulvis, femoribus nigris, alis limpidis ad costam fulvis.*

Body black: head covered with yellow down, clothed with yellow hairs; crown beset with a few black hairs; a broad brown shining stripe between the feelers and the mouth, which is pitchy: feelers pitchy; bristle tawny, downy: eyes pitchy; facets very small: chest and breast thickly covered with short tawny hairs; scutcheon tawny: abdomen nearly oval, tawny, longer and a little broader than the chest, clothed with short tawny hairs, black at the tip, and having on the back a black interrupted stripe, which during its course is widened into two short bands: legs clothed with short tawny hairs; hips black; thighs black, with yellow tips; hind thighs pitchy, tawny towards the base; shanks tawny, yellow at the base; feet pitchy, tawny towards the base; claws and foot-cushions tawny; tips of claws black: wings colourless, tawny along the fore border for more than half the length, where there is a small brown spot; wing-ribs tawny; veins black, tawny towards the base; poisers yellow. Length of the body 6 lines; of the wings 12 lines.

a. ———?

*ERISTALIS frater*, n. s., fem. *Niger, thoracis vittis quatuor scutelloque fulvis, abdominis fasciis duabus fulvis utrinque connexis, antennis piceis, pedibus nigris, tibiis basi fulvis, alis cinereis.*

Body black: head clothed with pale tawny down and hairs; crown beset with black hairs: mouth black: feelers pitchy; bristle tawny: eyes black; all the facets very small: chest and breast



clothed with short tawny hairs; chest adorned with four dull tawny stripes; scutcheon tawny: abdomen obconical, rather longer and broader than the chest, thinly clothed with short tawny hairs, adorned with two tawny bands, which are broad and connected together on each side: legs black, clothed with short tawny hairs; shanks tawny towards the base; feet covered beneath with tawny down; claws and foot-cushions tawny; tips of claws black; hind thighs rather thick; hind shanks slightly curved: wings gray; wing-ribs pitchy; veins black, ferruginous towards the base; poisers pale yellow. Length of the body 6 lines; of the wings 12 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERISTALIS* *decisus*, n. s., fem. *Nigro-fuscus, scutelli fulvi disco fusco, abdominis fasciis tribus ventrae flavis, segmentorum marginibus posticis fulvis, antennis ferrugineis, pedibus fulvis, femoribus basi nigris, tribus posticis ferrugineis, tarsis anticis piccis posticis nigris, alis subcinereis ad costam subfulvis.*

Body black: head clothed with short tawny hairs, and on the crown with short black hairs, ferruginous in front; sides of the peristoma black: mouth pitchy: feelers ferruginous: eyes pitchy; facets on the front of the crown rather larger than those elsewhere: chest and breast covered with a brown bloom, thickly clothed with short tawny hairs; scutcheon tawny, its disk brown: abdomen obconical, longer and broader than the chest, thinly clothed with very short yellow hairs, adorned with three yellow bands; first band very broad on each side, interrupted in the middle; second band narrower, with ferruginous marks, half interrupted in the middle; third band still narrower, its hind border concave; hind borders of the segments tawny; underside pale yellow, tawny towards the tip: legs tawny, clothed with short tawny hairs; thighs black, tawny towards the tips; claws tawny, with black tips; foot-cushions yellow; middle thighs tawny from the middle to the tips; hind thighs rather thick; hind shanks ferruginous, slightly curved, tawny at the base; fore feet pitchy; hind feet black: wings slightly gray, with a tawny tinge at the base and along two-thirds of the fore border; wing-ribs pitchy; veins black, ferruginous towards the base; poisers yellow. Length of the body 6 lines; of the wings 11 lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*ERISTALIS hæsitans*, n. s., fem. *Nigro-fuscus, scutello ferrugineo, abdominis lateribus basi segmenti secundi margine postico ventrique fulvis, antennis piceis, pedibus nigris, tibiis basi albidis, tarsis intermediis basi fulvis, alis limpidis.*

Head black: clothed with short tawny hairs, pitchy on the crown, and beset on each side with a few short black hairs, bright tawny and clothed with yellow hairs in front, where there is a brown shining spot: mouth black: feelers pitchy, with a ferruginous spot at the base; bristle tawny: eyes dark pitchy, their facets very small: chest and breast dark brown, clothed with short tawny hairs; scutcheon ferruginous: abdomen obconical, dark brown, shining, longer and a little broader than the chest, very thinly covered with pale yellow down; a large tawny angular spot on each side of the base; hind border of the second segment tawny; underside mostly tawny: legs black, clothed with pale yellow hairs; shanks whitish towards the base; middle feet tawny at the base; claws and foot-cushions tawny; tips of claws black: wings colourless; a small brown spot on the middle of the fore border; wing-ribs pitchy; veins black, ferruginous towards the base; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. ——— ?

*ERISTALIS campestris*, Meig. *Dipt.* iii. 387, 5. *Macq. Hist. Nat. Dipt.* i. 505, 12.

a. England.

*ERISTALIS hortorum*, Meig. *Dipt.* iii. 387, 6.

a. England.

*ERISTALIS vulpinus*, Megerle, Meig. *Dipt.* iii. 388, 7.

a. England.

*ERISTALIS cryptarum*, Fabr. *Syst. Antl.* 235, 11. *Meig. Dipt.* iii. 389, 9. *Macq. Hist. Nat. Dipt.* i. 505, 13. *Syrphus cryptarum*, Fabr. *Ent. Syst.* iv. 285, 26.

a. England.

*ERISTALIS intersistens*, n. s. *Niger, fronte flavo vittis tribus nigris, thorace viridi-æneo abdominis lateribus fulvis, antennis piceis, femoribus tibiisque nigro-fasciatis, tarsis piceis, alis subfulvis.*

Body black: head clothed with whitish hairs and down, pale yellow, with three black stripes in front: mouth pitchy: feelers pitchy; third joint rather paler: chest and breast brassy green, clothed with tawny hairs: abdomen elliptical, a little longer and broader than the chest, thinly clothed with tawny hairs; sides irre-

gularly tawny for more than half the length from the base: legs tawny, clothed with short tawny hairs; hips black; a broad black band across each thigh and shank; feet pitchy, tawny at the base; foot-cushions and claws tawny; tips of the claws black: wings slightly tawny; wing-ribs and veins tawny, the latter black towards the tips; poisers tawny. Length of the body  $4\frac{1}{2}$ —5 lines; of the wings 9—10 lines.

a. New York.

b. Trenton Falls. Presented by E. Doubleday, Esq.

*ERISTALIS anthophorinus*, Meig. *Dipt.* iii. 90, 11. *Syrphus anthophorinus*, Fall. *Syrph.* 23, 21. *Zett. Ins. Lapp.* 594, 9.

a. ———? From Mr. Children's collection.

*ERISTALIS nebulosus*, Barnston's MSS., mas. et fem. *Niger, scutello fulvo, abdominis lateribus fulvo unimaculatis, antennis piceis, pedibus nigris, tibiis ferrugineis, alis limpidis basi discolore fuscis.*

Body black: head shining, clothed with pale yellow hairs, covered behind and about the base of the feelers with pale yellow down: mouth pitchy: feelers pitchy; bristle tawny, downy, darker towards the tip: eyes pitchy, thinly clothed with short black hairs; facets on the fore part of the crown rather larger than those elsewhere: chest and breast thickly clothed with pale tawny hairs; scutcheon tawny: abdomen nearly oval, rather longer and broader than the chest, thickly clothed in the male with pale tawny hairs, and on the disk with black hairs, in the female with black hairs, adorned with a large tawny spot on each side near the base: legs black, clothed with short black hairs; shanks ferruginous, clothed with tawny hairs; claws tawny, with black tips; foot-cushions pale yellow; feet clothed beneath with tawny down: wings colourless, brownish tawny towards the base, adorned with a large brown spot on the disk; wing-ribs pitchy; veins black, ferruginous towards the base; poisers tawny. Length of the body 5— $5\frac{1}{2}$  lines; of the wings 10—11 lines.

a. New York. Presented by the Entomological Club.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

c. Nova Scotia. From Lieut. Redman's collection.

*ERISTALIS dives*, n. s., mas. *Nigro-æneus, thorace vittis cinereis, abdomine purpureo ornato, antennis fulvis, pedibus nigro-æneis, tibiis ferrugineis piceo fasciatis, basi flavis, tarsis fulvis, alis fulvis, macula parva costali nigra.*

Body brassy black : head beset on the crown with a few black hairs, covered in front with tawny down ; on the front, whose sides are adorned with oblique tawny stripes : mouth pitchy : feelers tawny : eyes bright bronze, covered with numerous little black spots ; fore part of the crown flat, not spotted, composed of much larger facets than those elsewhere : chest indistinctly striped with gray : breast covered with tawny down and hairs : abdomen deep black, obconical, a little shorter but not broader than the chest, thinly clothed with very short black hairs ; hind borders of the segments and tip brassy, partly tinged with purple ; the purplish bronze band on each segment is interrupted by a space, which is partly occupied by a brassy spot : legs brassy black, clothed with short tawny hairs ; shanks yellow at the base ; fore and middle shanks ferruginous, with pitchy bands ; feet tawny, with darker tips ; tips of hind feet black ; claws and foot-cushions tawny ; tips of claws black : wings tawny, with a small round black spot on the middle of the fore border ; wing-ribs ferruginous ; veins pitchy, ferruginous towards the base ; poisers tawny. Length of the body 6 lines ; of the wings 11 lines.

a. ——— ? \

*ERISTALIS Saxorum*, Wied. *Auss. Zweif.* ii. 158, 9.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. ——— ? From Mr. Children's collection.

*ERISTALIS inflexus*, n. s., mas. et fem. *Niger, fulco subfuscus, scutello subæneo margine fulvo, segmentorum marginibus posticis flavis, antennis piceis, pedibus nigris, tibiis basi flavis, alis limpidis disco subfuscis.*

Body black ; head covered with whitish down, clothed with short white hairs ; a ferruginous space at the base of the feelers ; mouth black : feelers pitchy ; bristle tawny : eyes black ; all the facets very small : chest and breast covered with a dark tawny bloom, clothed with tawny hairs ; scutcheon slightly bronzed ; its border tawny : abdomen nearly oval, a little longer and broader than the chest, thinly clothed with short tawny hairs, more thickly covered with white hairs at the base and on each side of the second segment ; hind borders of the segments pale yellow : legs black, clothed with

short tawny and black hairs; shanks pale yellow for half the length from the base; foot-cushions and claws tawny; tips of claws black: wings colourless, tinged with brown in the disk; wing-ribs and veins pitchy, the latter partly ferruginous, black along the fore border; poisers pale yellow. *Fem.*—Head clothed on the crown with black hairs, covered with tawny down between the crown and the feelers. Length of the body  $5\frac{1}{2}$ —6 lines; of the wings 11—12 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.
- c. ———?

*ERISTALIS* pervagus, *Harris, Cat. Ins. Massachusetts. Fem.*—*Niger, scutello cyaneo, abdominis segmentorum secundi et quarti marginibus posticis flavis, antennis pedibusque piceis, femoribus posticis tibiisque basi fulvis, alis limpidis basi discoque fuscis.*

Body black, shining: head covered with white bloom, clothed with white down; a black stripe along the front: mouth black: feelers pitchy; bristle tawny, hairy: eyes nearly black; their facets very small: chest thickly, but partially clothed with short pale tawny hairs; scutcheon blue: abdomen obconical, clothed with pale tawny down, a little broader but not longer than the chest; hind borders of the second and of the fourth segments pale yellow: legs pitchy; shanks and hind thighs tawny towards the base; feet clothed beneath with tawny down; foot-cushions and claws tawny; tips of the claws black: wings colourless, brown at the base; a large irregular brown spot extends from the fore border more than half across the wing, and includes the cross-veins; wing-ribs and veins pitchy; veins tawny towards the base; poisers tawny. Length of the body 5 lines; of the wings 10 lines.

- a. United States. Presented by the Entomological Club.
- b. ———?

*ERISTALIS* dimidiatus, *Wied. Auss. Zweif. ii. 180, 41.*

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERISTALIS* transversus, *Wied. Auss. Zweif. ii. 188, 51. Macq. Dipt. Exot. ii. 33, 4, pl. 9, f. 12.*

- a. Nova Scotia. From Lieut. Redman's collection.
- b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- c. Ohio. Presented by the Entomological Club.

- d. Trenton Falls. Presented by E. Doubleday, Esq.
- e. Delaware.
- f. New York. Presented by the Entomological Club.
- g. Florida. Presented by E. Doubleday, Esq.
- h. North America. From Mr. Children's collection.

*ERISTALIS compactus*, n. s., fem. *Niger, scutello rufo, abdominis segmentorum marginibus posticis flavis, antennis rufis, pedibus ferrugineis, tibiis basi flavis, tarsis anticis piceis, alis limpidis ad costam rufo-fuscis.*

Body black, stout, broad, shining: head clothed with a few pale tawny hairs, prominent about the mouth: feelers red: eyes pitchy, red, with a slight bronze tinge on the inner part above: chest and breast thinly clothed with short tawny hairs; scutcheon dark red: abdomen short, a little longer than broad, longer and broader than the chest, clothed with a few short tawny and black hairs; hind borders of the segments yellow: legs ferruginous, clothed with short black hairs; shanks pale yellow towards the base; feet pitchy towards the tips, clothed beneath with tawny down; fore feet pitchy; claws and foot-cushions tawny; tips of claws black: wings colourless, reddish brown along the fore borders for two-thirds of the length; wing-ribs pitchy; veins black, pitchy towards the base; poisers tawny. Length of the body 4 lines; of the wings 8 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERISTALIS solitus*, n. s., mas. *Niger, scutello abdomineque fulvis hoc fasciis quatuor fuscis, antennis ferrugineis, pedibus fulvis, tibiis posticis femoribusque nigris, tarsis piceis, alis limpidis.*

Body black: head covered with white bloom, clothed with short pale yellow hairs: mouth black: feelers ferruginous: eyes pitchy: all their facets very small: chest covered with dull tawny bloom, clothed with short pale yellow hairs; scutcheon tawny: abdomen tawny, obconical, a little broader but not longer than the chest, adorned with four deep brown bands; first band at the base; second band connected with the first in the middle; third band connected with a round brown spot by the middle of its fore border; fourth band near the tip; underside pale yellow, brown towards the tip: legs tawny, clothed with pale yellow hairs; hips, thighs, and hind shanks black; feet pitchy, paler beneath; claws and foot-cushions tawny; tips of claws black: wings colourless; wing-ribs

pitchy ; veins tawny, black towards the tips ; poisers tawny. Length of the body 5 lines ; of the wings 11 lines.

a. Nepal. From the Hardwicke bequest.

*ERISTALIS secretus*, n. s. *Nigro-æneus, scutello fulvo, abdomine nigro fasciis duabus fulvis, pedibus ferrugineis, femoribus æneis, tibiis anterioribus tarsisque fulvis, alis limpidis.*

Head wanting : chest and breast brassy black, clothed with tawny hairs ; scutcheon tawny : abdomen black, obconical, a little longer than the chest ; second segment adorned with an interrupted tawny band ; third segment with an entire band : legs ferruginous, clothed with short tawny hairs ; hips and thighs brassy ; feet and four front shanks tawny ; tips of feet pitchy ; claws and foot-cushions tawny ; tips of claws black : wings colourless, with a very small brown spot on the fore border ; wing-ribs and veins ferruginous, the latter pitchy towards the tips ; poisers tawny, with ferruginous knobs. Length of the body 5 lines ; of the wings 10 lines.

a. ——— ? From Mr. Children's collection.

*ERISTALIS jucundus*, n. s., fem. *Niger, scutello abdomineque fulvis, hoc fasciis tribus fuscis apiceque nigro, antennis ferrugineis articulo 3<sup>o</sup> supra piceo, pedibus fulvis, tibiis posticis femoribusque piceis, alis limpidis.*

Body black : head and chest clothed with short pale yellow hairs : head covered with pale yellow down, adorned with three black stripes between the feelers and the mouth ; crown beset with a few black hairs : mouth pitchy : feelers ferruginous ; third joint pitchy above ; bristle tawny, with a black tip : eyes red, slightly bronzed, each adorned with four black stripes : chest covered with tawny down, with the exception of four black stripes, of these, the middle pair are near together, and the side pair are interrupted ; scutcheon tawny, slightly bronzed : abdomen obconical, pale tawny, a little longer than the chest, adorned with three brown bands ; the second band broader than the first, but much narrower than the third, which is succeeded by a narrow tawny band, and beyond this the abdomen is black : legs tawny, clothed with short tawny hairs ; hips, thighs, and hind shanks pitchy, and clothed with black hairs ; knees yellow ; tips of feet ferruginous ; foot-cushions pitchy ; claws tawny, with black tips : wings colourless ; a very small brown spot in the middle of the fore border ; wing-ribs tawny ; veins pitchy, tawny towards the base ; poisers pale yellow. Length of the body 5 lines ; of the wings 10 lines.

a. ——— ?

**ERISTALIS** *Ægyptius*, n. s., mas. *Niger, scutello abdomineque fulvis hujus segmentorum marginibus posticis apiceque nigris, oculis fasciatis, antennis piceis, pedibus ferrugineis, femoribus tibiisque basi tarsisque fulvis, alis limpidis.*

Body black, clothed with short tawny hairs: mouth black: feelers pitchy; bristle tawny: eyes red, slightly bronzed, adorned with five black bands: scutcheon tawny: abdomen obconical, tawny, a little longer than the chest: hind borders of the segments and tip black: legs ferruginous, clothed with short tawny and black hairs; thighs and shanks tawny towards the base; feet tawny, with ferruginous tips; claws and foot-cushions tawny; tips of claws black: wings colourless; wing-ribs and veins tawny, the latter pitchy towards the tips; poisers yellow. Length of the body 5 lines; of the wings 10 lines.

a. *Egypt.* Presented by Sir G. Wilkinson.

**ERISTALIS** *caliginosus*, n. s., fem. *Niger, scutello abdominis maculis duabus magnis et segmentorum marginibus posticis flavis, antennis pedibusque nigris, alis cinereo fulvis.*

Body black: head clothed with short black hairs, and in front with whitish hairs and down; crown covered with brown down: eyes bronzed; all the facets very small: chest and breast clothed with short tawny hairs; scutcheon yellow; its fore border black: abdomen obconical, hardly longer or broader than the chest, thinly clothed with short tawny hairs, adorned with a very large yellow spot on each side of the second segment; sides of the segments adorned with steel-coloured spots, their hind borders yellow: legs black, clothed with short black and tawny hairs; knees ferruginous; claws and foot-cushions pale tawny; tips of claws black; hind thighs rather thick; hind shanks slightly curved: wings pale grayish tawny, darker along the fore borders, especially in the middle, deep brown at the base; wing-ribs and poisers pitchy; veins black, pitchy towards the base. Length of the body 6 lines; of the wings 12 lines.

a. ——— ?

**ERISTALIS** *cyaneifer*, n. s. *Niger, thoracis fuscis duabus una fulva altera cyanea, scutello abdominisque maculis magnis lateralibus fulvis, pedibus ferrugineis, femoribus nigris, alis flavo-fuscis.*

Body black: head wanting: chest deep black, clothed with short dark tawny hairs, adorned in front of the wings with a dull tawny band, and behind the wings with a deep blue band which terminates on each side in a tawny spot; scutcheon tawny;



breast covered with a grayish tawny bloom, clothed with short tawny hairs: abdomen obconical, a little longer than the chest; sides of the segments adorned with large tawny spots: legs black, clothed with short tawny hairs; shanks and feet dark ferruginous; foot-cushions tawny; claws black, ferruginous at the base; hind thighs rather thick; hind shanks slightly curved; hind feet pitchy: wings yellowish brown, darkest about the middle, and darker thence to the tips than towards the base; wing-ribs pitchy; veins black, pitchy towards the base. Length of the body 6 lines; of the wings 12 lines.

a. ———?

*ERISTALIS lateralis*, Walker, *Linn. Trans.* xvii. 347, 42. Allied to *E. fasciatus*, Wied. *Auss. Zweif.* ii. 173, 29.

a. St. Paul. Presented by the Entomological Club.

b. Chili. From Mr. Cuming's collection.

c. Mexico. Presented by E. P. Coffin, Esq.

d. Jamaica. From Mr. Gosse's collection.

e. Jamaica. From Mr. Gosse's collection.

f. Cayenne.

g. ———? Presented by Sir E. Belcher.

*ERISTALIS diminutus*, n. s., fem. *Niger, scutello fulvo, abdominis lateribus basi segmentorum marginibus posticis ventreeque fulvis, antennis pedibusque nigris, tibiis basi genubusque ferrugineis, alis limpidis.*

Body black: head covered with hoary down, clothed with pale short tawny hairs; crown beset with a few black hairs: feelers black; third joint pitchy; bristle reddish brown: eyes very dark red, clothed with short black hairs; all the facets very small: chest and breast thickly clothed with short tawny hairs; scutcheon tawny: abdomen obconical, a little broader but not longer than the chest, thinly clothed with short tawny hairs; a large tawny spot on each side of the base; hind borders of the segments tawny; underside tawny, with a black tip: legs black, clothed with short tawny hairs; shanks at the base and knees ferruginous; hind shanks curved; hind thighs rather thick; claws black; foot-cushions dark tawny: wings colourless; wing-ribs pitchy; veins black; poisers yellow. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Mexico. Presented by E. P. Coffin, Esq.

*ERISTALIS agrorum*, Fabr. *Syst. Antl.* 235, 12. *Wied. Auss. Zweif.* ii. 172, 28. *Syrphus agrorum*, Fabr. *Ent. Syst.* iv. 285, 27.

a. ———?

b. ———? From Mr. Children's collection.

*ERISTALIS vinetorum*, *Fabr. Syst. Antl.* 235, 13. *Wied. Auss. Zweif.* ii. 163, 15. *Macq. Dipt. Exot.* ii. 41, 16. *Syrphus vinetorum*, *Fabr. Ent. Syst. Suppl.* 562, 27.

a. Brazil.

b. Nova Scotia. From Lieut. Redman's collection.

c. ———? From Mr. Children's collection.

d. ———?

*ERISTALIS uvarum*, *MSS.*, fem. *Niger, capite antennis scutelloque fulvis, thoracis fasciis duabus fuscis, abdominis basi segmentorum marginibus posticis ventrique fulvis, pedibus ferrugineis nonnunquam piceo variis, tibiis basi flavis, alis subfulvis cinereo variis.*

Head tawny, clothed with white hairs and down: crown beset with a few brown hairs: mouth pitchy: feelers tawny: eyes red, slightly bronzed; all the facets very small: chest and breast black, clothed with yellowish hoary down; chest adorned with two brown bands, one narrow in front of the wings, the other broad between the wings; scutcheon bright tawny: abdomen obconical, a little longer and broader than the chest, clothed with tawny hairs, adorned at the base with a very broad interrupted tawny band; hind borders of the segments and underside tawny: legs ferruginous, clothed with short black and tawny hairs; shanks at the base yellow and clothed with pale yellow hairs; feet pitchy towards the tips; claws and foot-cushions tawny; tips of claws black: wings pale tawny; disks of some of the areolets gray; wing-ribs tawny; veins pitchy, tawny towards the base; poisers tawny. Length of the body 5—6 lines; of the wings 9—11 lines.

Var.  $\beta$ . An interrupted tawny band on the third abdominal segment; hind thighs pitchy towards the base.

Var.  $\gamma$ . Like var.  $\beta$ .: thighs towards the base, hind thighs, and hind shanks pitchy.

a. Jamaica. From Mr. Gosse's collection.

b. Jamaica. From Mr. Children's collection.

c. Jamaica.

d. ———? From Mr. Children's collection.

e. ———?

*ERISTALIS Amphicrates*, n. s., mas. et fem. *Fuscus, capite fulvo, thoracis fascia scutelloque fuscis, abdomine fulvo maculis tribus triangulis fuscis apice nigro-cæneo, antennis fulvis, pedibus nigris, femoribus tibiisque basi fulvis, alis limpidis fulvo venosis.*

*Male*.—Body brown: head tawny, beset with a few black hairs on the crown about the eyelets, in front yellow, and clothed with

short tawny hairs: mouth pitchy: feelers tawny: eyes bronzed; facets on the fore part of the crown much larger than elsewhere: chest clothed with short tawny hairs; a broad brown band across the middle; scutcheon brown: abdomen obconical, tawny, clothed with short tawny hairs, a little broader but hardly longer than the chest, brassy towards the tip, which is black, adorned with three triangular brown spots, successively decreasing in size from the base, and each having a shining triangular tawny spot on its disk; underside tawny: legs black, clothed with short black hairs; thighs and shanks tawny towards the base, and clothed there with tawny hairs; claws and foot-cushions tawny; tips of claws black: wings colourless, with a tawny tinge along the borders of the veins, excepting the tips and the hind borders of the wings; wing-ribs and veins pitchy; poisers tawny. *Fem.*—Front of the head white: bands of the chest paler and more distinct than those of the male: abdomen with brown bands on the hind borders of the segments: hind thighs pitchy. Length of the body 5—5½ lines; of the wings 10—11 lines.

- a. North Bengal. From Miss Campbell's collection.
- b. Java. From Mr. Melly's collection.
- c. East Indies. From Archdeacon Clerk's collection.
- d. China. Presented by G. T. Lay, Esq.

*ERISTALIS nigricans*, *Wied. Auss. Zweif.* ii. 89, 52.

- a. South Africa. Presented by Dr. A. Smith.

*ERISTALIS tæniops*, *Wied. Auss. Zweif.* ii. 182, 43.

- a. South Africa. Presented by Dr. A. Smith.

*ERISTALIS arvorum*, *Fabr. Syst. Antl.* 235, 14. *Wied. Auss. Zweif.* ii. 184, 46. *Macy. Dipt. Exot.* ii. 47, 26. *Syrphus arvorum*, *Fabr. Ent. Syst.* iv. 286, 28.

- a. ———?

*ERISTALIS Anicetus*, n. s., mas. et fem. *Fulvus*, *thorace vittis quatuor piceis*, *scutello ferrugineo*, *abdominis vitta dorsali et segmentorum marginibus posticis ferrugineis*, *antennis pedibusque fulvis*, *alis limpidis*.

Body tawny: head clothed in front with short tawny hairs: feelers tawny: eyes bronzed; facets on the fore part of the crown much larger than elsewhere: chest covered with tawny down, adorned with four pitchy stripes; scutcheon pale ferruginous; breast paler tawny: abdomen short-obconical, a little broader but not longer than the chest; a ferruginous stripe along the back; hind borders of the segments ferruginous: legs tawny, partly ferru-

ginous; tips of claws black: wings colourless; wing-ribs and veins ferruginous; poisers tawny. Length of the body 5 lines; of the wings 10 lines.

a. ———? From Mr. Children's collection.

b. ———?

*ERISTALIS Æsepus*, n. s., mas. et fem. *Æneus*, capite nigro, thorace vittis quinque scutelloque fulvis, abdomine fulvo fasciis tribus æneis, antennis pedibusque fulvis, tibiis posticis femoribusque viridibus, alis limpidis fusco ad costam bimaculatis.

Head black, clothed on the crown with a few black hairs, in front tawny and covered with tawny down: mouth black: feelers tawny; a pitchy stripe along the edge of the third joint; bristle pitchy towards the tip: eyes red, slightly bronzed, covered with many little darker spots: chest and breast bronzed, thinly clothed with short tawny hairs: chest adorned with five tawny stripes; scutcheon tawny, its disk slightly bronzed; breast partly tawny: abdomen tawny, obconical, very little shorter than the chest, adorned with three bronze bands; bands on the male of various breadths, the first narrow, but widened in the middle; bands in the female broad and regular; underside of the tip bronzed: legs tawny, clothed with short tawny hairs; hips and thighs, except the tips and hind shanks, green, the latter pale yellow at the base; tips of feet pitchy; claws and foot-cushions tawny; tips of claws black: wings colourless; two small brown spots on the middle of the fore border; wing-ribs and veins tawny; tips of the latter pitchy; poisers pale yellow. Length of the body 4 lines; of the wings 8 lines.

a. China. Presented by G. T. Lay, Esq.

b. ———?

*ERISTALIS Agno*, n. s., mas. *Fulvus*, capite nigro, thorace vittis quatuor scutelloque æneis, abdomine vitta dorsali nigra fasciisque nigro-fuscis, antennis ferrugineis, pedibus fulvis, tibiis anterioribus femoribusque apice ferrugineis, femoribus posticis tarsisque apice necnon tibiis posticis piceis, his ferrugineo fasciatis basi flavis, alis limpidis. Fem.—Abdomine nigro maculis octo flavis, femoribus posticis apice tibiisque posticis ferrugineis, illis subius nigris.

Head black, covered with a white bloom, clothed with short tawny hairs, pale tawny in front: mouth black: feelers pale ferruginous; a black stripe on the edge of the third joint; bristle black towards the tip: eyes red, slightly bronzed; lower part covered with

numerous little dark spots; facets on the fore part of the crown larger than elsewhere: chest and breast tawny, thinly clothed with short tawny hairs; chest adorned with four bronze stripes; outer stripe on each side interrupted by an oblique tawny band; scutcheon coppery green, with a tawny border; breast partly bronzed: abdomen obconical, tawny, as long as the chest, adorned with a single black stripe, and with a brown band along the nearly black hind border of each segment: legs tawny, clothed with short tawny and black hairs; hips and tips of hind thighs pitchy; tips of the thighs and of the shanks of the four front legs ferruginous; hind shanks pitchy, pale yellow at the base, ferruginous about the middle; tips of feet pitchy; claws and foot-cushions tawny; tips of claws black: wings colourless; a small black spot on the middle of the fore border; wing-ribs and veins tawny, the latter black towards the tips; poisers pale yellow. *Fem.* — Abdomen black above, with four yellow spots on each side; these spots are in pairs, and decrease successively in size from the base to the tip; there are also three pairs of spots on the sides of the abdomen; the first pair on the back join the first side pair, the second are nearly separated from the second side pair, and the third pair are quite distinct from the third side pair: tips of hind thighs ferruginous, black beneath; hind shanks mostly ferruginous. Length of the body 5 lines; of the wings 10 lines.

- a. New Holland. Presented by J. Hunter, Esq.
- b. New Holland. Presented by the Earl of Derby.
- c. West Australia. From Mr. Clifton's collection.

*ERISTALIS Antidotus*, n. s., mas. *Fulvus, thorace vittis quatuor scutelloque aeneis, abdomine basi albido, fasciis duabus fuscis ornato, apice viridi, segmento quarto piceo margine postico ferrugineo flavoque fasciato, antennis pedibusque fulvis, tibiis basi flavis, tibiis posticis ferrugineis, alis limpidis.*

Head covered with a white bloom, clothed with short tawny hairs, beset with a few black hairs at the crown, yellow in front: mouth black: feelers tawny; a black stripe on the edge of the third joint; bristle black towards the tip: eyes yellow, slightly bronzed; facets on the fore part of the crown larger than those elsewhere: chest and breast tawny, covered with tawny down: chest adorned with four bronze stripes; scutcheon slightly bronzed; breast bronzed about the hips: abdomen obconical, deep tawny, a little shorter but hardly broader than the chest; a whitish narrow band at the base; a brown band along the hind border of the second segment, widening and forming an angle in the middle of its fore border; third segment with a similar band along its hind border,

which however is tawny; fourth segment pitchy, ferruginous on the hind border, and adorned with a broad angular yellow band; fifth segment dark green, shining: legs tawny, clothed with short tawny and black hairs; thighs darker towards the tips; shanks pale yellow towards the base; hind shanks ferruginous, yellow at the base, tawny in the middle; claws and foot-cushions tawny; tips of claws black: wings colourless; wing-ribs, veins, and poisers tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. China. Presented by G. T. Lay, Esq.

*ERISTALIS* Inamames, n. s., mas. *Niger, pilis fulvis vestitus, scutello nigro piloso, abdomine basi fulvo, antennis pedibusque nigris, tarsis fulvis, alis limpidis.*

Body black, broad and thick: head clothed with pale tawny hairs, silvery behind, beset with black hairs on the crown, covered in front with a dark tawny bloom: mouth black: feelers black; bristle tawny, feathered: eyes reddish bronze; facets on the front of the crown larger than those elsewhere: chest and breast black, chest thickly clothed with short bright tawny hairs; breast covered with a dull tawny bloom; scutcheon, with the exception of its hind border, clothed with black hairs: abdomen short-obconical, clothed with short tawny hairs, tawny at the base, a little broader and shorter than the chest: legs black, clothed with short black hairs; feet dark tawny; foot-cushions pale tawny; claws yellow, with black tips: wings colourless; wing-ribs and veins pitchy; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. Sandwich Isles. Presented by Captain Beechey.

*ERISTALIS* Andræmon, n. s., fem. *Niger, thorace antico fulvo pectore cinereo, abdomine fulvo fasciis tribus nigris, pedibus nigris, alis albidis basi et costæ medio nigro-fuscis.*

Body black: eyes dark reddish bronze; facets very small: chest clothed with short black hairs, in front tawny and clothed with short tawny hairs: breast gray: abdomen short-obconical, bright tawny, adorned with three black bands on the hind borders of the segments, a little broader but not longer than the chest; first band much broader than either of the two following: legs black, clothed with short black hairs: wings whitish, dark brown at the base, and having a large spot of the same colour on the middle of the fore border; cross-veins clouded with brown: wing-ribs and veins black. Length of the body 6 lines; of the wings 11 lines.

a. Silhet. From the Rev. J. Stainforth's collection.

**ERISTALIS** *Datamus*, n. s., fem. *Niger, pilis fulvis vestitus, scutello nigro hirto, abdomine basi fulvo, pedibus nigris, tarsis fulvis, alis albidis basi et costæ medio nigro-fuscis.*

Body black, stout: head clothed with short tawny hairs; a ferruginous spot at the base of the feelers, which like the mouth are black: eyes reddish bronze; facets very small: chest and breast thickly clothed with short tawny hairs, which are most pale on the breast; scutcheon, excepting the hind border, clothed with black hairs: abdomen a little broader, but not longer than the chest, clothed with short tawny hairs, adorned with a broad tawny band, which occupies one-third of the length from the base: legs black, clothed with short tawny hairs: feet tawny; tips of claws black: wings whitish, dark brown at the base, adorned with a large dark brown spot on the middle of the fore border: wing-ribs and veins black; poisers pitchy. Length of the body 7 lines; of the wings 12 lines.

a. ———? From Mr. Children's collection.

**ERISTALIS** *Plistoanax*, n. s., mas. *Niger, capite fulvo, thorace piceo fasciis duabus fulvis, abdomine fulvo maculis dorsi ferrugineis, antennis fulvis, pedibus nigris, tibiis basi femoribusque posticis fulvis, alis fusco-fulvis.*

Body black, broad and thick: head tawny, clothed in front with pale tawny hairs: mouth pitchy: feelers tawny: eyes bronze black; facets on the fore part of the crown larger than elsewhere: chest pitchy, clothed with short black hairs, adorned with two dark tawny bands, which are clothed with hairs of the same colour; one is on the fore border, the other before the scutcheon: abdomen tawny, short-obconical, a little broader but not longer than the chest, clothed with short tawny hairs; a triangular ferruginous spot on the hind border of each segment from the second; that on the second is largest and darkest, and extends to the sides; legs black, clothed with short tawny hairs; shanks towards the base and hind thighs, except their tips, tawny and clothed with paler hairs; foot-cushions and claws tawny; tips of claws black: wings brownish tawny, paler at the tips and along the hind borders; wing-ribs and veins pitchy, the latter ferruginous towards the base; poisers tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 11 lines.

a. Philippine Isles. From Mr. Cuming's collection.

**ERISTALIS** Babytace, n. s., mas. *Niger, thorace piceo fasciis duabus fulvis, abdomine piceo basi fulvo, antennis ferrugineis, pedibus nigris, tibiis basi flavis, tarsis subtus piceis, alis subfulvis ad costam obscurioribus fuscoque maculatis.*

Body black, broad and thick: head clothed with short black hairs, in front tawny and clothed with short tawny hairs: mouth pitchy: feelers pale ferruginous; bristle tawny: eyes bronzed, dark red on the fore part of the crown, where the facets are larger than elsewhere: chest pitchy, clothed with short black hairs, adorned with two dark tawny indistinct bands, which are covered with hairs of the same colour; the first is in front of the chest, the second before the scutcheon: abdomen short-obconical, a little broader but not longer than the chest, clothed with short tawny hairs, tawny for half the length from the base, pitchy thence to the tip: legs black, clothed with short tawny hairs; shanks yellow towards the base; feet pitchy beneath; foot-cushions and claws tawny; tips of claws black: wings with a slight tawny tinge, darker along the fore border, on whose middle there is a brown spot; wing-ribs and veins pitchy; poisers tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 12 lines.

a. Philippine Isles. From Mr. Cuming's collection.

**ERISTALIS** Agyrus, n. s., mas. *Piceus, pilis fulvis hirtus, capite fulvo, abdomine viridi-æneo, basi fulvo, antennis piceis pedibus nigris tibiis basi femoribus anterioribus apice femoribusque posticis fulvis, alis limpidis.*

Body pitchy, broad and thick: head tawny, clothed in front with tawny hairs: mouth black, shining: feelers pitchy; bristle tawny: eyes coppery; facets on the fore part of the crown much larger than elsewhere: chest and breast clothed with dark tawny hairs, the latter covered with a gray bloom: abdomen brassy green, tawny towards the base, clothed with tawny hairs, shorter but hardly broader than the chest: legs black, clothed with tawny and black hairs; shanks tawny at the base; foot-cushions tawny; claws black, tawny towards the base; tips of four front thighs tawny; hind thighs tawny, black towards the tips: wings colourless; wing-ribs, veins, and poisers pitchy; angle of the tip vein sending forth a short branch. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. Philippine Isles. From Mr. Wood's collection.



**ERISTALIS** *Æsymnus*, n. s., mas. *Piceus, pilis fulvis hirtius, thorace antico fulvo, abdominis basi fulvo apice fasciis ferrugineis, antennis piceis, pedibus ferrugineis, alis fuscis apice margineque postico limpidis.*

Body broad, pitchy: head clothed with pale tawny hairs, ferruginous in front: mouth pitchy: feelers pitchy; bristle tawny, feathered: eyes coppery, mingled with dark red; facets on the fore part of the crown larger than elsewhere: chest clothed with dark tawny hairs, in front bright tawny, and clothed with hairs of the same colour: abdomen short-obconical, clothed with tawny hairs, as broad as the chest but not longer, bright tawny from the base to near half the length, pitchy, with dark ferruginous bands from thence to the tip: legs dark ferruginous, thickly clothed with short black hairs; claws and foot-cushions tawny; tips of claws black; hind thighs not thick: wings dark brown, colourless at the tips and along the hind borders; wing-ribs, veins, and poisers pitchy; angle of the vein emitting a short branch. Length of the body 4 lines; of the wings 8 lines.

a. East Indies. From Archdeacon Clerk's collection.

**ERISTALIS** *Æbutius*, n. s., fem. *Nigro-æneus, capite nigro, fronte fulvo, scutello purpureo, abdomine cyaneo-viridi, æneo purpureo maculisque nigris ornato, antennis pedibusque fulvis, femoribus basi aneis, posticis viridi-æneis apice purpureis, tibiis apice tarsisque piceis, alis limpidis basi subfulvis.*

Head black, covered behind with silvery bloom, very bright tawny in front: mouth pitchy; feelers bright tawny; bristle darker; eyes very dark red; all their facets very small: chest and breast dull brassy black, thickly clothed with short tawny hairs; scutcheon bright purple: abdomen nearly oval, thinly clothed with short tawny hairs, a little longer and broader than the chest, bright coppery green at the base; then succeeds a broad purplish black band, which is followed by a narrow shining purplish blue band on the hind border of the second segment; third segment bluish green, with a large transverse black spot on each side of the hind border; fourth segment bluish green, with a smaller nearly round black spot on each side; fifth segment purplish blue, shining; tip black; third and fourth segments each adorned with a round black spot: legs tawny, clothed with short tawny hairs; thighs towards the base and hips brassy; feet and tips of the shanks of the fore legs and of the hind legs pitchy; hind thighs bright brassy green, purple towards the tips; claws black; foot-cushions tawny: wings colourless, with a slight tawny tinge towards the base; wing-ribs pitchy;

veins black, tawny towards the base, some of them tawny along the whole length; poisers tawny. Length of the body 6 lines; of the wings 12 lines.

a. Adelaide. Presented by the Entomological Club.

*ERISTALIS smaragdi*, n. s., fem. *Viridis, micans, antennis fulvis, pedibus nigris, femoribus cyaneis, tibiis anterioribus basi fulvis, alis limpidis.*

Body bright metallic green, thinly clothed with short hoary hairs: head clothed with short pale hairs, white behind, in front tawny and covered with a white bloom: mouth pitchy: feelers tawny: eyes bronzed; their facets very small: breast with a tuft of white hairs on each side: abdomen obconical, as long and as broad as the chest: legs black; hips and thighs blue; hind thighs purplish blue, stout, compressed; four front shanks tawny at the base; hind shanks curved; claws black; foot-cushions dull tawny: wings colourless; wing-ribs and veins black; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. New Holland. Presented by J. Hunter, Esq.

*ERISTALIS chrysopygus*, Wied. Zool. Mag. iii. 15, 21. *Auss. Zweif.* ii. 152, 1. *Phytomia chrysopyga*, Guerin, Belanger, Voy. Ind. Orient. 510, pl. 4, f. 8. *Megaspis chrysopygus*, Macq. Dipt. Exot. ii. 27, 1, pl. 7, f. 2.

a. Silhet. From Mr. Sowerby's collection.

b. Silhet. From Mr. Stainforth's collection.

c. ———?

*ERISTALIS crassus*, Fabr. Syst. Antl. 232, 4. Wied. *Auss. Zweif.* ii. 153, 3. *Syrphus crassus*, Fabr. Ent. Syst. iv. 281, 12. *S. megacephalus*, Fabr. Ent. Syst. Suppl. 561, 17. *Megaspis crassus*, Macq. Dipt. Exot. ii. 28, 2, pl. 7, f. 3.

a. Nepaul. From the Hardwicke bequest.

b. North Bengal. From Miss Campbell's collection.

*ERISTALIS intricarius*, Fabr. Syst. Antl. 232, 3. Meig. Dipt. iii. 391, 12. Macq. Hist. Nat. Dipt. i. 501, 1. *Musca intricaria*, Linn. Syst. Nat. ii. 985. Faun. Suec. 1800. Gmel. Ed. Syst. Nat. v. 2871, 33. Deg. Ins. vi. 59, 3, pl. 8, f. 10, 11. Stew. El. ii. 265. Turt. iii. 638. *M. fuscus*, Harr. Ex. 42, pl. 10, O. 3, f. 3. *Syrphus intricarius*, Fabr. Sp. Ins. ii. 426, 22. Ent. Syst. iv. 281, 11. Panz. Faun. Germ. lix. 11. Fall. Syrph. 23, 12. Zett. Ins. Lapp. 502, 1. *S. bombyliiformis*, Fabr. Ent. Syst. iv. 281, 13. Syst. Antl. 227, 12. Panz.

*Faun. Germ.* lix. 12. *S. aureus*, *Panz. Faun. Germ.* xc. 20.  
*Volucella intricaria*, *Schrank, Faun. Boic.* iii. 2479.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*ERISTALIS Nemorum*, *Fabr. Syst. Antl.* 234, 10. *Meig. Dipt.* iii. 394, 16. *Macq. Hist. Nat. Dipt.* i. 502, 5. *Musca Nemorum*, *Linn. Syst. Nat.* ii. 984. *Faun. Suec.* 1797. *Gmel. Ed. Syst. Nat.* v. 2869, 30. *Schrank, Ins. Austr.* 903. *Berk. Syn.* i. 163. *Stew, El.* ii. 264. *Turt.* iii. 640. *M. Lyra*, *Harr. Ex.* 42, pl. 10, O. 3, f. 5. *Musca*, &c., *Reaum. Ins.* iv. pl. 31, f. 8. *Geoff. Ins.* ii. 511, 36. *Syrphus Nemorum*, *Fabr. Sp. Ins.* ii. 414, 13. *Ent. Syst.* iv. 285, 25. *Zett. Ins. Lapp.* 503, 5. *Volucella Nemorum*, *Schrank, Faun. Boic.* iii. 2478. *Elophilus Nemorum*, *Latr. Gen. Crust.* iv. 324.

a. England.

b. France.

*ERISTALIS Arbustorum*, *Fabr. Syst. Antl.* 236, 17. *Meig. Dipt.* iii. 395, 17. *Macq. Hist. Nat. Dipt.* i. 503, 7. *Musca Arbustorum*, *Linn. Syst. Nat.* ii. 984. *Faun. Suec.* 1798. *Gmel. Ed. Syst. Nat.* v. 2869, 31. *Schrank, Faun. Boic.* iii. 2428. *M. horticola*, var. *Deg. Ins.* vi. 60, 5. *M. ciuctos*, *Harr. Ex.* 43, pl. 10, O. 3, f. 6. *Syrphus Arbustorum*, *Fabr. Sp. Ins.* ii. 424, 15. *Ent. Syst.* iv. 286, 30. *Panz. Faun. Germ.* xiv. 22. *Fall. Syrph.* 25, 15. *Zett. Ins. Lapp.* 593, 6. *Elophilus Arbustorum*, *Latr. Gen. Crust.* iv. 324.

a. England.

b. France.

*ERISTALIS horticola*, *Meig. Dipt.* iii. 396, 18. *Macq. Hist. Nat. Dipt.* i. 503, 8. *Musca horticola*, *Deg. Ins.* vi. 60, 5, pl. 8, f. 12. *M. lineatus*? *Harr. Ex.* 42, pl. 10, O. 3, f. 4. *Eristalis flavicinctus*, *Fabr. Syst. Antl.* 232, 5. *Syrphus flavicinctus*, *Fall. Syrph.* 24, 13.

a. England.

b. Finmark? From Mr. Children's collection.

c. ———? From Mr. Children's collection.

*ERISTALIS Rupium*, *Fabr. Syst. Antl.* 241, 38. *Meig. Dipt.* iii. 397, 19. *Macq. Hist. Nat. Dipt.* i. 503, 9. *Musca paralleli*, *Harr. Ex.* 43, pl. 10, O. 3, f. 7. *M. lineolæ* (var. ?), *Harr. Ex.* 58, pl. 15, f. 10. *Syrphus cryptarum*, *Panz. Faun. Germ.* xc. 18. *S. piceus*, *Fall. Syrph.* 24, 14.

a. England.

- . *ERISTALIS flavipes*, Barnston's MSS., mas. et fem. *Niger, pilis fulvis vestitus, abdomine nigro hirtio, basi lateribus fulvo fasciculatis, antennis piceis, pedibus nigris, tarsis anticis piceis intermediiis fulvis posticis rufis, alis subfuscis disco nigro-fuscis apice limpidis.*

Body black: head clothed with pale tawny hairs: mouth black: feelers pitchy; bristle ferruginous, feathered, black towards the tip: eyes bronzed or pitchy; each with a stripe of short black hairs; all the facets very small: chest and breast very thickly clothed with pale tawny hairs: abdomen short-obconical, much broader and a little longer than the chest, clothed with black hairs, adorned on each side of the tip with a tuft of pale tawny hairs: legs black, clothed with short black hairs; foot-cushions tawny; claws black, tawny at the base; fore feet pitchy; middle feet tawny, with black tips; hind feet pale red, with black tips: wings of the male colourless; wings of the female tinged with brown from the base to the middle, where they are dark brown, colourless thence to the tips; wing-ribs and veins pitchy, the latter ferruginous towards the base; poisers tawny. Length of the body 5—6 lines; of the wings 10—12 lines.

Var.  $\beta$ . *Thorace flavo-piloso, abdomine fulvo piloso basique pilis flavis vestito, pedibus nigris, tarsis posticis fulvis.* Chest and sides of the breast very thickly clothed with yellow hairs: back of the abdomen very thickly clothed with bright tawny hairs, and at the base with pale yellow hairs: legs black; four front feet dull tawny beneath; hind feet bright tawny, with black tips.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.  
b. Nova Scotia. From Lieut. Redman's collection.

*ERISTALIS florens*, *Fabr. Syst. Antl.* 233, 9. *Meig. Dipt.* iii. 399, 21. *Mucq. Hist. Nat. Dipt.* i. 504, 10. *Musca florea*, *Linn. Syst. Nat.* ii. 984. *Faun. Suec.* 1796. *Gmel. Ed. Syst. Nat.* v. 2868, 29. *Deg. Ins.* vi. 46, 2, pl. 6, f. 2. *Schrank, Faun. Boic.* iii. 2426. *Schæff. Icon. pl.* 54, f. 11. *Stew, El.* ii. 264. *Turt.* iii. 639. *M. ablectus*, *Harr. Ex.* 41, pl. 10, 3, f. 2. *M. Atropos*, *Gmel. Ed. Syst. Nat.* v. 2880, 383. *Schrank, Ins. Austr.* 904. *Syrphus florens*, *Fabr. Sp. Ins.* ii. 423, 11. *Ent. Syst.* iv. 283, 20. *Panz. Faun. Germ.* xli. 21. *Fall. Syrph.* 30, 25. *Elophilus florens*, *Latr. Gen. Crust.* iv. 324.

- a. England.  
b. France.  
c. Ukraine. Presented by Dr. Dowler.  
d. Albania. Presented by W. W. Saunders, Esq.  
e. ———? From Mr. Children's collection.

## VOLUCELLA, Geoffroy.

**VOLUCELLA bombylans**, *Schrank, Faun. Boic.* iii. 2473. *Latr. Gen. Crust.* iv. 322. *Meig. Dipt.* iii. 402, 1. *Zeller, Ent. Zeit. Stettin*, iii. 65. *Erichson, Ent. Zeit. Stettin*, iii. 113. *Macq. Hist. Nat. Dipt.* i. 493, 1. *Guér. Icon. Regn. Anim. Ins.* pl. 99, f. 1. *Zett. Ins. Lapp.* 591, 3. *Musca bombylans*, *Linn. Syst. Nat.* ii. 983. *Faun. Suec.* 1792. *Gmel. Ed. Syst. Nat.* v. 2867, 25. *Schæff. Icon. pl.* 10, f. 7. *Harr. Ex.* 40, pl. 10, f. 3. *Harr. Ex.* 39, pl. 10, f. 1. *Ins.* v. 23, pl. 151, f. 4. *Stew, El.* ii. 264. *Don. Brit. Ins.* xiv. 15, pl. 471. *Turt.* iii. 637, var.? *M. melanopyrrha*, f. 1. *Stew, El.* ii. 264. *Turt.* iii. *Forst. Curt.* i. 98. *Stew, El.* ii. 258. *Turt.* iii. 604. *M. plumata*, *Deg. Ins.* vii. 58, pl. 8, f. 4—9. *M. mystacea*, p. 37. *M. plumosa*, *Gmel. Ed. Syst. Nat.* v. 2867, 333. *Syrphus bombylans*, *Fabr. Sp. Ins.* ii. 421, 1. *Ent. Syst.* iv. 279, 4. *Syst. Antl.* 224, 4. *Panz. Faun. Germ.* viii. 21. *Fall. Syrph.* 18, 3.

a. England.

b. France.

c. ———? From Mr. Children's collection.

Var. *Volucella hæmorrhoidalis*, *Dalman, Zett. Ins. Lapp.* 591, 2.

**VOLUCELLA plumata**, *Latr. Gen. Crust.* iv. 322. *Meig. Dipt.* iii. 402, 2. *Macq. Hist. Nat. Dipt.* i. 494. *Zett. Ins. Lapp.* 591, 3. *Musca*, &c., var. *Linn. Faun. Suec.* 1793. *M. mystacea*, *Gmel. Ed. Syst. Nat.* v. 2867, 26. *Schell. Gen. Mouch.* pl. 8, f. 1. *M. plumata*, *Deg. Ins.* vi. 58, 2, pl. 8, f. 4—9. *Syrphus mystaceus*, *Fabr. Sp. Ins.* ii. 421, 2. *Ent. Syst.* iv. 279, 5. *Syst. Antl.* 224, 5. *Panz. Faun. Germ.* viii. 22. *Volucella mystacea*, *Schrank, Faun. Boic.* iii. 2474. *V. apiaria*, *Schrank, Faun. Boic.* iii. 2475. *Syrphus plumatus*, *Fall. Syrph.* 17, 2.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**VOLUCELLA pellucens**, *Schrank, Faun. Boic.* iii. 2481. *Latr. Gen. Crust.* iv. 322. *Meig. Dipt.* iii. 404, 3. *Macq. Hist. Nat. Dipt.* i. 493, 2. *Zett. Ins. Lapp.* 591, 4. *Musca pellucens*, *Linn. Faun. Suec.* 1826. *Gmel. Ed. Syst. Nat.* v. 2838, 62. *Deg. Ins.* vi. 27, 1, pl. 3, f. 1—3. *Herbst, Germ. Nat.* viii. pl. 340, f. 4. *Schrank, Ins. Austr.* 920. *Fabr. Sp. Ins.* ii. 435, 2. *Berk. Syn.* i. 164. *Stew, El.* ii. 257. *Turt.* iii. 637. *Shaw, Gen. Zool.* vi. 385. *Rem. Linn. Gen.* 31, pl. 6. *Syrphus pel-*

lucens, *Fabr. Ent. Syst.* iv. 279, 3. *Syst. Antl.* 244, 3. *Panz. Faun. Germ.* i. 17. *Fall. Syrph.* 19, 5. *S. putescens*, *Schell. Gen. Mouch. pl.* 8, f. 2. *Volucella*, &c., *Geoff. Ins.* ii. 540, 1.

a. England.

b. France.

c. South of France. Presented by F. Walker, Esq.

d. ———? From Mr. Children's collection.

*VOLUCELLA inflata*, *Meig. Dipt.* iii. 405, 4, pl. 32, f. 28. *Macq. Hist. Nat. Dipt.* i. 493. *Curt. Brit. Ent.* 452. *Syrphus inflatus*, *Fabr. Ent. Syst.* iv. 280, 8. *Syst. Antl.* 226, 8. *Volucella dryophila*, *Schrank, Faun. Boic.* iii. 2476.

a. England.

b. France.

*VOLUCELLA zonaria*, *Meig. Dipt.* iii. 406, 5, pl. 32, f. 27. *Macq. Hist. Nat. Dipt.* i. 492, 1. *Schmitt. Ent. Zeit. Stettin*, iii. 18. *Musca*, &c., *Reaum. Ins.* iv. pl. 33, f. 15. *Schæff. Icon. pl.* 80, f. 1. *M. zonaria*, *Schrank, Ins. Austr.* 921. *Syrphus inanis*, *Fabr. Ent. Syst.* iv. 278. *Syst. Antl.* 223, 1.

a. Clermont. Presented by the Entomological Club.

b. Clermont. Presented by F. Walker, Esq.

c. France.

d. Albania. Presented by E. Doubleday, Esq.

e. Albania. Presented by W. W. Saunders, Esq.

f. Albania. Presented by F. Walker, Esq.

g. Martigny. Presented by F. Walker, Esq.

h. Malaga. Presented by Benjamin Frend, Esq.

*VOLUCELLA inanis*, *Latr. Gen. Crust.* iv. 322. *Cons. Gén.* 443. *Meig. Dipt.* iii. 407, 6. *Macq. Hist. Nat. Dipt.* i. 492. *Musca inanis*, *Linn. Faun. Suec.* 1825. *Gmel. Ed. Syst. Nat.* v. 2837, 61. *Fabr. Sp. Ins.* ii. 435, 1. *Schæff. Icon. pl.* 36, f. 7, 8. *Berk. Syn.* i. 164.? *Don. Brit. Ins.* xxiv. 59, pl. 490, f. 1. *Stew, El.* ii. 257. *Turt.* iii. 636. *Sam. Ent. Comp.* 71, pl. 9, f. 3. *M. annulatus*, *Harr. Ex.* 40, pl. 10, f. 4. *M. apivora*, *Deg. Ins.* vi. 28, 3, pl. 3, f. 4. *M. trifasciata*, *Schrank, Ins. Austr.* 919. *Syrphus micans*, *Fabr. Ent. Syst.* iv. 278, 2. *Syst. Antl.* 224, 2. *S. inanis*, *Panz. Faun. Germ.* ii. 6. *Fall. Syrph.* 19, 6.

a. England.

b. Albania. Presented by F. Walker, Esq.

c. ———? From Mr. Children's collection.

**VOLUCELLA metallifera**, n. s., fem. *Cano-purpurea, capite piceo trisulcato, antennis ferrugineis, pedibus nigris, alis limpidis basi et ad costam nigro-fuscis fulvoque variis.*

Body purple, covered with a very slight hoary bloom: head pitchy, clothed behind with whitish down, with three furrows between the eyelets and the feelers, prominent in front, and adorned on each side with whitish down: mouth black: feelers ferruginous; bristle deeply feathered: eyes pitchy; all the facets very small: chest thinly clothed with very short tawny hairs: abdomen short-obconical, broader but not longer than the chest; hairs at the tip rather longer and more numerous than elsewhere: legs black, clothed with short black hairs; foot-cushions pale tawny; claws black: wings colourless, blackish brown at the base and along the fore border for nearly half the breadth, and for more than half the length; disk of the dark part tawny here and there; veins slightly clouded with brown along the rest of the fore border and at the tip; wing-ribs pitchy; veins black; fore border veins tawny in the colourless part of the wing; poisers pale tawny. Length of the body 7 lines; of the wings 15 lines.

a. Venezuela. From Mr. Dyson's collection.

b. Mexico. Presented by E. P. Coffin, Esq.

**VOLUCELLA esuriens**, Wied. *Auss. Zweif.* ii. 197, 4. *Syrphus esuriens*, Fabr. *Ent. Syst.* iv. 281, 10. *Syst. Antl.* 226, 9.

a. ———? From Mr. Children's collection.

**VOLUCELLA adjuncta**, n. s., mas. et fem. *Ferruginea, thorace purpureo, antennis pedibusque ferrugineis, tarsis apice femoribusque piceis, alis limpidis ad costam subfulvis, nervis transversis basi fusco nebulosis.*

Nearly allied to *V. esuriens*. Body smooth and shining: head ferruginous: eyes pitchy; facets on the fore part of the crown rather larger than those elsewhere: feelers ferruginous: chest purple, ferruginous towards the tip: abdomen ferruginous: legs ferruginous, clothed with short black hairs; thighs and tips of feet pitchy; claws black; foot-cushions tawny: wings colourless, slightly tawny along the fore border towards the base; cross-veins adjoining the tawny part clouded with brown; wing-ribs and veins pitchy; poisers pale yellow. Length of the body  $5\frac{1}{2}$ —6 lines; of the wings 12—13 lines.

a. ———? From Mr. Children's collection.

**VOLUCELLA spinigera**, Wied. *Auss. Zweif.* ii. 197, 5.

a. South America. From Mr. Warwick's collection.

*VOLUCELLA* *purpurea*, n. s., mas. *Cupreo-purpurea*, capite fulvo, pectore abdominis basi ventreque ferrugineis, antennis fulvis, pedibus ferrugineis, alis cinereo-fulvis disco fuscis.

Head tawny, prominent in front: feelers tawny; bristle deeply feathered: eyes bronzed, partly pitchy; facets on the fore part of the crown larger than those elsewhere: chest coppery purple, covered with tawny down, beset on each side and behind with a few black bristles: breast ferruginous, slightly bronzed: abdomen short-obconical, coppery purple, tawny at the base, a little broader but not longer than the chest; underside ferruginous, slightly bronzed: legs dull ferruginous, clothed with short black hairs; foot-cushions tawny; claws black, ferruginous at the base: wings grayish tawny, with a large brown spot on the fore border occupying half the breadth of the wing, extending to the hind border along one of the veins, and accompanying the fore border nearly to the tip; wing-ribs and veins pitchy; veins ferruginous towards the base; poisers dull tawny, with whitish knobs. Length of the body 4½ lines; of the wings 9 lines.

a. Para. Presented by Reginald Graham, Esq.

*VOLUCELLA* *obesa*, Wied. *Auss. Zweif.* ii. 199, 8. *Macq. Hist. Nat. Dipt.* i. 494, 5. *Syrphus obesus*, *Fabr. Ent. Syst.* iv. 763, 5. *Ent. Syst.* iv. 282, 15. *Syst. Antl.* 227, 14. *Ornidia obesa*, *St. Farg. et Serv. Encyl.* x. 786. *Walk. Linn. Trans.* xvii. 346, 41.

a. Isle of France.

b. Surinam.

c. Jamaica.

d. Brazil.

e. Carthagera.

f. Brazil. Presented by Sir C. Stewart.

g. Honduras. Presented by Sir C. Stewart.

h. Jamaica. From Mr. Gosse's collection.

i. Brazil. From Mrs. Noel's collection.

j. ———? From Mr. Children's collection.

k. ———?

*VOLUCELLA* *vacua*, Wied. *Auss. Zweif.* ii. 202, 13. *Syrphus vacuus*, *Fabr. Ent. Syst.* 763, 4. *Ent. Syst.* iv. 281, 14. *Syst. Antl.* 227, 13.

a. Florida. Presented by E. Doubleday, Esq.

b. Georgia. From Mr. Abbot's collection.

c. South America.

d. ———? From Mr. Children's collection.



## Fam. XV. PLATYPEZINÆ.

## PLATYPEZA, Meigen.

Group I. *Meig. Dipt.* iv. 5, pl. 33, f. 10, a.

*PLATYPEZA boletina*, *Fall. Platyp.* 4, 1. *Meig. Dipt.* iv. 5, 1.  
*Macq. Hist. Nat. Dipt.* ii. 18, 4.

a. France.

*PLATYPEZA fasciata*, *Panz. Faun. Germ.* 103, 20. *Meig. Dipt.* iv.  
 6, 2. *Macq. Hist. Nat. Dipt.* ii. 7, 1. *Zett. Ins. Lapp.* 529,  
 1. *Dolichopus fasciatus*, *Fabr. Syst. Anil.* 271, 22. *Latr.*  
*Gen. Crust.* iv. 292. *Lam. Anim. sans Verteb.* iii. 424, 1.

a. England.

*PLATYPEZA atra*, *Fall. Platyp.* 6, 3. *Meig. Dipt.* iv. 7, 4. *Macq.*  
*Hist. Nat. Dipt.* ii. 18, 7. *Zett. Ins. Lapp.* 529, 3.

a. France.

Group II. *Meig. Dipt.* iv. 7.

*PLATYPEZA picta*, *Meig. Dipt.* vi. 358, 9.

a. England. Presented by F. Walker, Esq.

## CALLOMYIA, Meigen.

*CALLOMYIA elegans*, *Panz. Faun. Germ.* ciii. 18, 19. *Meig. Dipt.*  
 iv. 11, 1. *Macq. Hist. Nat. Dipt.* ii. 19, 1, pl. 13, f. 8. *Zett.*  
*Ins. Lapp.* 531, 3. *Dolichopus elegans*, *Fabr. Syst. Anil.* 271,  
 21. *Latr. Gen. Crust.* iv. 292. *Lam. Anim. sans Verteb.* iii.  
 425, 3. *C. leptiformis*, *mas.*, *Fall. Platyp.* 6, 1.

a. England.

*CALLOMYIA elegantula*, *Fall. Platyp.* 7, 2. *Meig. Dipt.* iv. 13, 3.

a. France.

*CALLOMYIA leptiformis*, *Fall. Platyp.* 6, 1. *Zeit. Act.* 6. *Holm.*  
 1819, 1, 78, 31. Var. a. *Ins. Lapp.* 530, 1. *Meig. Dipt.* iv. 13,  
 4. *Macq. Hist. Nat. Dipt.* ii. 20, 3. *C. socia*, *Wied. Zool.*  
*Mag.* i. 69, 13.

a. France.

*CALLOMYIA speciosa*, *Meig. Dipt.* iv. 14, 6. *Macq. Hist. Nat. Dipt.* ii. 20, 4. *Zett. Ins. Lapp.* 530, 2. *C. leptiformis*, var. *b.* *Zett. Act. Holm.* 1819, 1, 79.

*a.* England. Presented by F. Walker, Esq.

*CALLOMYIA antennata*, *Fall. Kongl. Vet. Acad. Handl.* 1819. *St.* 1, 79, 32. *Meig. Dipt.* iv. 15, 7. *Macq. Hist. Nat. Dipt.* ii. 20, 5.

*a.* England. Presented by F. Walker, Esq.

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## Fam. XVI. MEGACEPHALI.

### PIPUNCULUS, Latreille.

\* *Ent. Mag.* ii. 264.

*PIPUNCULUS maculatus*, *Walk. Ent. Mag.* ii. 264, 1. *P. lateralis*, *Macq. Hist. Nat. Dipt.* ii. 11, 8. *P. annulipes*, *Zett. Ins. Lapp.* 580, 7.

*a.* England. Presented by F. Walker, Esq.

*PIPUNCULUS reipublicæ*, n. s. *Niger, abdomine nigro-æneo, antennis pedibusque fulvis, femoribus basi nigro fasciatis, alis limpidis.*

Body black, hardly shining: eyes red: feelers tawny; bristle black: abdomen brassy black, convex, thinly clothed with white down: legs tawny; a black band at the base of each thigh: wings colourless; wing-ribs tawny; veins black, tawny towards the base; poisers pale yellow. Length of the body  $1\frac{1}{2}$  line; of the wings  $1\frac{1}{2}$  line.

*a.* New York. Presented by the Entomological Club.

*PIPUNCULUS sylvaticus*, *Meig. Dipt.* iv. 20, 3. *Walk. Ent. Mag.* ii. 265, 2. *Macq. Hist. Nat. Dipt.* ii. 10, 5. *Zett. Ins. Lapp.* 579, 5.

*a.* England. Presented by F. Walker, Esq.

*PIPUNCULUS geniculatus*, *Meig. Dipt.* iv. 20, 2. *Walk. Ent. Mag.* ii. 265, 3. *Macq. Hist. Nat. Dipt.* ii. 10, 4. *Zett. Ins. Lapp.* 579, 4.

*a.* England. Presented by F. Walker, Esq.

† *Ent. Mag.* ii. 266.

**PIPUNCULUS flavipes**, *Meig. Dipt.* iv. 21, 5. *Walk. Ent. Mag.* ii. 266, 4.

a. England. Presented by F. Walker, Esq.

b. France.

**PIPUNCULUS pratorum**, *Meig. Dipt.* iv. 22, 7. *Walk. Ent. Mag.* ii. 266, 5. *Macq. Hist. Nat. Dipt.* ii. 11, 7. *Curt. Brit. Ent.* 757. *Zett. Ins. Lapp.* 579, 1. *Cephalops pratorum*, *Fall. Syrph.* 15, 1.

a. England.

b. England.\* Presented by F. Walker, Esq.

**PIPUNCULUS campestris**, *Latr. Hist. Nat. Crust.* xiv. 392. *Gen. Crust.* iv. 332. *Cons. Gén.* 444. *Leach, Edin. Encycl.* x. 130. *Meig. Dipt.* iv. 19, 1. *Guér. Icon. Rey. Anim. Ins.* pl. 96, f. 7. *Walk. Ent. Mag.* ii. 267, 6. *Macq. Hist. Nat. Dipt.* ii. 10, 3, pl. 13, f. 5.

a. England.

b. England. Presented by F. Walker, Esq.

c. France.

†† *Ent. Mag.* ii. 267.

**PIPUNCULUS modestus**, *Haliday, Ent. Mag.* i. 162. *Walk. Ent. Mag.* ii. 267, 7.

a. England. Presented by F. Walker, Esq.

**PIPUNCULUS ruralis**, *Meig. Dipt.* iv. 22, 8. *Walk. Ent. Mag.* ii. 268, 8. *Macq. Hist. Nat. Dipt.* ii. 11, 10.

a. England. Presented by F. Walker, Esq.

\*\* *Meig. Dipt.* iv. 23. *Ent. Mag.* ii. 269.

**PIPUNCULUS auctus**, *Meig. Dipt.* iv. 23, 10. *Walk. Ent. Mag.* ii. 269, 9. *Macq. Hist. Nat. Dipt.* ii. 9, 2. *Cephalops auctus*. *Fall. Syrph.* 61, 1, 2.

a. England. Presented by F. Walker, Esq.

#### CHALARUS, Walker.

**CHALARUS spurius**, *Walk. Ent. Mag.* ii. 269, 1. *Cephalops spurius*, *Fall. Syrph.* 16, 3. *Pipunculus spurius*, *Meig. Dipt.* iv. 24, 12. *Zett. Ins. Lapp.* 580, 8. *Atelenevra velutina*, *Macq. Hist. Nat. Dipt.* ii. 12, 1, pl. 13, f. 6.

a. England. Presented by F. Walker, Esq.

- CHALARUS holosericeus, *Walk. Ent. Mag.* ii. 270, 2. *Pipunculus holosericeus*, *Meig. Dipt.* iv. 24, 12. *P. exiguus*, *Hal. Ent. Mag.* i. 162. *P. obscurus?* *Zett. Ins. Lapp.* 580, 9. *Atele-nevra holosericea*, *Macq. Hist. Nat. Dipt.* ii. 13, 2.  
*a.* England. Presented by F. Walker, Esq.
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## Fam. XVII. DOLICHOPODES.

RHAPHIUM, *Meigen.*

- RHAPHIUM longicorne, *Meig. Dipt.* iv. 28, 1. *Zett. Ins. Lapp.* 703, 1. *Macq. Dipt. Nord.* 51, 1. *Hist. Nat. Dipt.* i. 440, 1.  
*a.* England.
- RHAPHIUM caliginosum, *Meig. Dipt.* iv. 29, 4, *pl.* 9, *f.* 18. *Macq. Hist. Nat. Dipt.* i. 440, 3. *Zett. Ins. Lapp.* 703, 2. *Hydrochus laticornis*, *Fall. Dolich.* 6, 3, *var. c.*  
*a.* England.

MACHÆRIUM, *Haliday.*

- MACHÆRIUM maritimum, *Haliday, Zool. Journ.* v. 352, 1, *pl.* 15, *f.* 11, 12.  
*a.* England. Presented by F. Walker, Esq.

DIAPHORUS, *Meigen.*

- DIAPHORUS oculatus, *Zett. Ins. Lapp.* 706, 1. *D. flavocinctus*, *Meig. Dipt.* iv. 33, 1, *vi.* 360. *Macq. Dipt. Nord.* 22, 1, *pl.* 1, *f.* 3. *D. Hoffmanseggii*, *Meig. vi.* 5. *Macq. Hist. Nat. Dipt.* i. 448, 1. *D. bimaculata*, *var.?* *Macq. Hist. Nat. Dipt.* i. 448, 2, *pl.* 9, *f.* 11. *Dolichopus oculatus*, *Fall. Dolich.* 28, 22.  
*a.* England.

PSILOPUS, *Megerle.*

- PSILOPUS platypterus, *Meig. Dipt.* iv. 36, 2. *Macq. Dipt. Nord.* 24, 1, *pl.* 1, *f.* 4. *Hist. Nat. Dipt.* i. 448, 1, *pl.* 10, *f.* 23. *Dolichopus platypterus*, *Fabr. Syst. Antl.* 270, 20. *Leptopus tipularius*, *Fall. Dolich.* 23, 1. *Psilopus tipularius*, *Zett. Ins. Lapp.* 714, 1.  
*a.* England.

*PSILOPUS contristans*, Meig. *Dipt.* iv. 37, 4. Macq. *Hist. Nat. Dipt.* i. 449, 3. *Dolichopus contristans*, Wied. *Zool. Mag.* i. 72, 19.

a. England.

*PSILOPUS lugens*, Meig. *Dipt.* iv. 38, 6. Macq. *Hist. Nat. Dipt.* i. 449, 5.

a. England.

*PSILOPUS equestris*, Wied. *Auss. Zweif.* ii. 214, 3. *Musca equestris*, Fabr. *Syst. Ent.* 782, 50. *Ent. Syst.* iv. 340, 119. *Dolichopus equestris*, Fabr. *Syst. Antl.* 268, 7.

a. Brazil.

*PSILOPUS siphon*, Wied. *Auss. Zweif.* ii. 218, 9. Macq. *Dipt. Exot.* ii. 119, 11, pl. 21, f. 1. *Dolichopus siphon*, Say, *Journ. Acad. Philad.* iii. 84, 1.

a. Massachusetts. From Prof. Sheppard's collection.

*PSILOPUS diffusus*? Wied. *Auss. Zweif.* ii. 221, 17.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*PSILOPUS cælestis*, n. s. mas. *Viridissimus, capite cyaneo purpureoque vario, abdominis lateribus cupreo vittatis, antennis pedibusque flavis, tarsis fulvis, alis limpidis ad costam fuscis.*

Body intense green: head bright bluish green, varied with purple, golden green in front, much broader than the chest: eyes red: mouth pale tawny: feelers pale yellow; bristle black, longer than the body, with a knob at the tip: sides of the chest and breast covered with white bloom: abdomen with a bright copper stripe along each side; appendages tawny: legs pale yellow, adorned with parallel rows of very short black bristles, and clothed with longer hairs and bristles; feet dark tawny, pitchy towards the tips: wings colourless, dark brown along the fore border, paler, and including a colourless streak on the disk; wing-ribs and poisers tawny; veins black. Length of the body  $3\frac{1}{4}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. East Indies. From Archdeacon Clerk's collection.

*PSILOPUS smaragdinus*, n. s. *Viridissimus, capite purpureo-cyaneo, abdomine subtus æneo, antennis nigris, pedibus fulvis, tarsis posticis femoribusque nigris, alis fuscis ad costam fulvo maculatis, marginibus posticis apicibus vittisque nonnullis limpidis.*

Body intense emerald green: head clothed with white hairs beneath, and with white down in front; crown of the head bright purplish blue: eyes bright red: mouth and feelers black, the latter

a little longer than the head and the chest: chest and abdomen beset with long black bristles: breast and abdomen covered with white bloom: abdomen brassy beneath: legs tawny, clothed with a few black hairs and bristles, adorned with parallel rows of very minute black bristles; thighs black; four front thighs tawny towards the tips; tips of feet pitchy; hind feet black: wings brown; a pale yellowish spot on the middle of the fore border; hind borders, tips, and some streaks on the disk colourless; wing-ribs and veins black; poisers pitchy. Length of the body 3 lines; of the wings 7 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*PSILOPUS Cupido*, n. s., mas. *Purpureus, capite viridi bimaculato, thoracis vittis tribus viridibus, abdominis lateribus cyaneo-viridibus, antennis pedibusque fulvis, alis limpidis ad costam fulvis, fuscoque bimaculatis.*

Body beset with black hairs and bristles: head bright purple, not broader than the chest, covered in front, behind and beneath with silvery down, adorned with a green spot on each side of the crown: eyes red: mouth tawny: feelers tawny; bristle black, shorter than the body: chest bluish purple, adorned with three green stripes; sides and breast covered with silvery bloom: abdomen purple, bluish green on each side, coppery green beneath: legs tawny, clothed with black hairs and bristles; feet dark tawny, pitchy towards the tips: wings colourless, tawny, with two brown marks along the fore border for more than half the length; beyond this are two brown bands joined together on the fore border; the second band is very broad, but does not join the hind border nor the tip of the wing; wing-ribs and veins tawny, the latter pitchy towards the tips; poisers tawny. Length of the body  $2\frac{1}{4}$  lines; of the wings 5 lines.

a. East Indies. From Archdeacon Clerk's collection.

*PSILOPUS carus*, n. s., fem. *Viridis, cyaneo purpureoque varius, antennis nigris, pedibus fulvis, alis albidis apicem versus fuscis, nervis transversis fusco nebulosis.*

Body beset with black hairs and bristles: head bluish green and tinged with purple on the crown, golden green and covered with white down in front: eyes bright red: mouth tawny: feelers black: chest bright green, striped with blue and purple; sides and breast covered with silvery bloom: abdomen bluish green, covered beneath with silvery bloom: legs pale tawny, thinly clothed

white hairs and bristles; feet darker: wings whitish, brown towards the tips of the fore borders; cross-veins clouded with brown; wing-ribs and poisers tawny: veins pitchy. Length of the body 2 lines; of the wings 4 lines.

a. Congo. Presented by Sir. J. Richardson.

*PSILOPUS gemmeus*. *Purpureus, viridi cupreoque varius, antennis nigris, pedibus fulvis, femoribus nigris, alis fuscis subfusco variis, apicibus marginibusque posticis limpidis.*

Head bright purple, green in front and on each side of the crown: eyes red: mouth tawny: feelers black: chest green, purple on the disk, beset with long black bristles: abdomen bluish purple on the back, green, and varied with copper-colour on each side and beneath, beset with long black hairs and bristles, covered with whitish bloom, which is visible horizontally, more than twice the length of the chest; tip black: legs tawny, adorned with rows of very small black spines; hips green, clothed like the breast with white bloom; thighs black, clothed with a few white hairs towards the base; shanks armed with a few black bristles, which increase in length from the base to the tip; feet pitchy towards the tips; hind legs very long; hind feet armed with very long black bristles, their tips clothed with short black hairs: wings brown, mottled with paler colour, colourless along the hind borders and at the tips; wing-ribs and poisers pitchy; veins black. Length of the body 3 lines; of the wings 6 lines.

a. Africa.

*PSILOPUS gemmans*, n. s. *Aureo-viridis, thorace cyaneo vittato, abdomine basi cyaneo apice cupreo, antennis nigris, pedibus viridibus, tarsis nigris, alis subcinereis.*

Body golden green, beset with black bristles: head adorned with a bluish purple spot between the feelers and the mouth: eyes bright red: mouth pitchy: feelers black; bristle nearly as long as the chest: chest adorned with indistinct bluish stripes: abdomen blue at the base, bright copper-colour towards the tip: legs green, clothed with short black hairs; thighs furnished with long black hairs; feet black: wings slightly gray; wing-ribs and veins black; poisers pitchy. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. West Australia. From Mr. Clifton's collection.

**PSILOPUS gemmarius**, n. s., mas. *Cyaneo-viridis, capite purpureo, thoracis lateribus pectoreque albo-flavis, abdomine viridi nigro fasciato, basi fulvo, antennis nigris basi flavis, capite thoraceque longioribus, pedibus albo-fulvis, tarsis apice nigris, alis subfulvis.*

Head covered with white down, shining and bright bluish purple on the crown: eyes pitchy; facets on the fore part of the crown larger than those elsewhere: mouth pale yellow: feelers black, pale yellow at the base, longer than the head and the chest: disk of the chest bluish green, armed with a few black bristles; sides and breast pale yellow, with a whitish tinge: abdomen green, clothed with black hairs, more slender than the chest, and about four times its length, tawny at the base, black at the tip; a broad black band along the fore border of each segment: legs whitish, tawny, long and slender, clothed with black hairs and bristles; feet black towards the tips: wings slightly tawny, brown at the tips of the fore borders; wing-ribs tawny; veins black; poisers pale tawny. Length of the body 5 lines; of the wings  $7\frac{1}{2}$  lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**PSILOPUS delicatus**, n. s., fem. *Viridis, gracilis, abdomine aureo-viridi, antennis fulvis, articulo 3<sup>o</sup> nigro, pedibus flavis, alis limpidis.*

Body slender, bright green, clothed with black hairs and bristles: crown of the head blue: eyes bright red: mouth yellow: feelers tawny; third joint black; bristle black, shorter than the chest: abdomen golden green: legs pale yellow, long and slender, clothed with short black hairs; feet pitchy towards the tips: wings colourless; wing-ribs and poisers tawny; veins pitchy. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New York. Presented by the Entomological Club.

b. New York. Presented by E. Doubleday, Esq.

**PSILOPUS corculum**, n. s., mas. *Viridis, capitis vertice cyaneo-purpureo, scutello cyaneo, abdominis basi purpureo-cyaneo apice cupreo-viridi, antennis nigris, femoribus viridibus, tibiis fulvis, tarsis piceis, alis limpidis, fusco bifasciatis.*

Body bright green, beset with black hairs and bristles: head bright bluish purple on the crown, clothed with white down in front, and with white hairs beneath: eyes red: mouth tawny: feelers black; bristle nearly as long as the chest: scutcheon blue; sides of the chest and breast covered with white bloom: abdomen bright purplish blue for half the length from the base, bright coppery green from thence to the tip: legs clothed with black hairs and



bristles; hips and thighs green; hips covered with a white bloom; thighs fringed with white hairs; shanks pale tawny; feet pitchy; wings colourless, with two brown bands which are joined together on the fore border, and extend thence to the tip of the wing but do not reach the hind border; wing-ribs pitchy; veins black; poisers pitchy, with yellow knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. Brazil. Presented by J. P. George Smith, Esq.

*PSILOPUS gemmifer*, n. s., mas. *Viridis, cyaneo purpureoque varius, antennis nigris, pedibus flavis, alis limpidis, costa apicem versus nervisque transversis fusco-nebulosis.*

Body bright green, beset with black hairs and bristles: head covered in front with silvery down: eyes red: mouth tawny: feelers black, as long as the head and the chest, disk of the chest bluish green, tinged with purple; scutcheon purple; sides and breast covered with silvery bloom: abdomen slender; tip bluish purple; appendages dark tawny: legs yellow, beset with black hairs and bristles, which are most thick on the feet; four hinder hips green; thighs clothed with white hairs; feet towards the tips and hind feet pitchy: wings colourless, clouded with pale brown towards the tips of the fore borders and along the cross-veins; wing-ribs tawny; veins black; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. Trenton Falls. Presented by E. Doubleday, Esq.

*PSILOPUS chrysoprasi*, n. s. *Aureo-viridis, capitis vertice purpureo-cyaneo, scutello abdominisque basi purpureis, abdominis segmentorum suturis aeneo-purpureis, antennis nigris, pedibus piceis, femoribus viridibus, tibiis anterioribus tarsisque anticis fulvis, alis subcinereis.*

Body golden green, beset with black bristles: head purplish blue on the crown, slightly covered with white down in front: eyes bright red: mouth and feelers black: scutcheon purple: abdomen adorned with purple towards the base; sutures of the segments brassy purple: legs pitchy, thickly clothed with short black hairs; hips and thighs green; hips slightly covered with white bloom; thighs fringed with white hairs; fore shanks pale tawny; middle shanks and fore feet dark tawny: wings slightly gray; wing-ribs and poisers pitchy; veins black. Length of the body 2 lines; of the wings  $4\frac{1}{2}$  lines.

a. West Indies. From Mr. Children's collection.

**PSILOPUS amoris**, n. s. *Purpureus, viridi varius, abdomine cyaneo-viridi, apice purpureo, antennis nigris, pedibus fulvis, tarsis piceis, alis limpidis fusco bifasciatis.*

Body beset with black bristles: head green, purple on the crown, covered with white down in front: eyes red: mouth tawny: feelers black; bristle shorter than the chest: chest purple; sides and breast green, slightly covered with white bloom: abdomen bright bluish green, with a white bloom beneath, tinged with purple beneath, and at the tip: legs pale tawny, clothed with very short black hairs; four hinder hips green, covered with white bloom; shanks rather darker than the thighs; feet pitchy: wings colourless, adorned with two brown bands, which accompany the cross-veins, but do not reach the hind border, they are joined together in the fore border, and extend thence to the tip; wing-ribs tawny; veins black; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Brazil.

**PSILOPUS gemmatus**, n. s. *Cyaneo-viridis, abdomine aureo-viridis basi cyaneo-viridi, antennis nigris, pedibus flavis, alis subcinereis.*

Body bright bluish green, beset with black bristles: head covered in front with white down: eyes bright red: mouth tawny: feelers black; bristle nearly as long as the chest: breast and sides of the chest covered with whitish bloom: abdomen golden green, bluish green at the base: legs pale yellow, clothed with very short black bristles; feet darker, pitchy towards the tips: wings slightly gray; wing-ribs and poisers tawny; veins black; curve of the tip cross-vein unusually slight. Length of the body 2 lines; of the wings  $4\frac{1}{2}$  lines.

a. New Zealand. Presented by Dr. Sinclair.

**PSILOPUS metallifer**, n. s. *Viridis, capitis vertice purpureo-cyaneo, abdomine cupreo fasciis nigris, antennis pedibusque nigris, femoribus viridibus, alis subcinereis.*

Body bright green, beset with black bristles: head mostly purplish blue on the crown, clothed in front with white down: eyes bright red: mouth dark tawny: feelers black; bristle nearly as long as the chest: breast and sides of the chest covered with white bloom: abdominal segments bright copper-colour on the disks, adorned with broad black bands at the base: legs black, clothed with short black hairs and bristles; hips and thighs green; hips covered with white bloom; thighs fringed with white hairs: wings

slightly gray; wing-ribs and veins black; poisers dark tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. ———? From Mr. Children's collection.

*PSILOPUS pretiosus*, n. s. *Viridis, capite cupreo purpureoque vario, thoracis disco purpureo, abdomine nigro-cupreo, vittis viridicæneis, antennis nigris, pedibus fulvis, femoribus piceis, alis limpidis, fusco bifasciatis.*

Body beset with black bristles: head coppery green, bluish purple on the crown and towards the mouth: eyes bright red: mouth pitchy: feelers black: chest green, purple on the disk; sides and breast covered with whitish bloom: abdomen coppery black; hind borders of the segments brassy green: legs dark tawny, clothed with short black hairs; hips and thighs pitchy; hips covered with white bloom; thighs clothed with a few whitish hairs; feet pitchy towards the tips: wings slightly gray; fore border from one-third of the length till near the tip adorned with a broad brown stripe, from whence proceed two broad bands which do not reach the hind border; wing-ribs and poisers pitchy; veins black. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. Brazil.

*PSILOPUS suavius*, n. s. *Viridis, capitis vertice cyaneo-purpureo, abdomine apicem versus purpureo, antennis pedibusque nigris, femoribus viridibus, alis limpidis fusco bifasciatis.*

Body bright green, beset with black bristles: head bluish purple on the crown, clothed with white down in front: eyes red: mouth pitchy: feelers black; bristle nearly as long as the chest: breast and sides of the chest covered with a white bloom: abdomen purple towards the tip: legs black, beset with black hairs and bristles; hips and thighs green; hips covered with a white bloom; thighs clothed with white hairs: wings colourless, adorned with two brown bands, which are joined together on the fore border and more slightly on the disk, but do not reach the hind border nor the tip; veins black; wing-ribs and poisers pitchy. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Jamaica. From Mr. Gosse's collection.

*PSILOPUS amatus*, n. s., mas. et fem. *Viridis, capite purpureo, abdomine nigro-fusciato apice purpureo, antennis nigris, pedibus piceis, femoribus viridibus, alis subcinereis, costa apicem versus nervisque transversis fusco nebulosis.*

Body bright green, beset with black hairs and bristles: head purple, covered in front with white down; crown of the male

adorned with a green spot on each side: eyes red: mouth and feelers black; bristle a little shorter than the chest: hind part of the chest tinged with blue and purple; sides and breast covered with white down: abdomen at the tip purple in the male, bluish purple in the female; hind borders of the segments in the male adorned with black bands: legs pitchy, beset with black hairs and bristles; hips and thighs green, the former covered with white down: wings slightly gray, indistinctly marked with brown towards the tips of the fore borders and along the cross-veins; wing-ribs pitchy; veins black; poisers of the male pitchy, of the female tawny. Length of the body  $1\frac{1}{2}$ — $1\frac{3}{4}$  line; of the wings  $3\frac{1}{4}$ —4 lines.

a. New York. Presented by E. Doubleday, Esq.

b. Trenton Falls. Presented by E. Doubleday, Esq.

*PSILOPUS quadricolor*, n. s. *Viridis, capitis vertice abdominisque basi purpureo-cyaneis, thorace purpureo, antice aureo-viridi, abdominis fasciis nigro-æneis, antennis piceis, femoribus viridibus, tibiis fulvis, tarsis piceis, alis limpidis fusco bifasciatis.*

Body beset with black hairs and bristles: head bright green, purplish blue on the crown, clothed with white down in front: eyes red: mouth pitchy: feelers pitchy; bristle as long as the chest: chest purple, golden green in front; sides and breast covered with white bloom: abdomen bright green, bluish purple towards the base; bronze-black bands occupy the fore borders of the segments and successively increase in breadth, especially on each side from the base to the tip of the abdomen: legs beset with black hairs and bristles; hips and thighs green; shanks tawny; feet pitchy: wings colourless, adorned with two brown bands which are joined together on the fore border, but do not reach the hind border nor the tip of the wing, the second is broader than the first; wing-ribs pitchy; veins black; poisers tawny. Length of the body  $1\frac{1}{4}$  line; of the wings  $3\frac{1}{2}$  lines.

a. Brazil.

*PSILOPUS inficitus*, n. s. *Viridis, capite purpureo, abdomine purpureo, abdomine purpureo-cyaneo, fasciis nigris, antennis pedibusque nigris, alis subcinereis fusco bifasciatis.*

Head and chest beset with black bristles: head purple, fringed about the mouth with hoary hairs: eyes red: mouth and feelers black; bristle a little longer than the chest: chest green; sides and breast covered with whitish down: abdomen deep purplish blue; sutures of the segments black: legs black, clothed with black hairs

and bristles: wings slightly gray, adorned with two brown bands, which are united on the fore border, but do not reach the hind border; wing-ribs and veins black; poisers pitchy, with tawny knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Mexico. Presented by E. P. Coffin, Esq.

*PSILOPUS trigemmans*, n. s., mas. *Cyaneo-viridis, capite cyaneo-purpureo, abdomine fulvo, apice viridi-æneo, antennis fulvis, articulo 3<sup>o</sup> nigro, pedibus fulvis, alis limpidis.*

Body beset with black bristles: head bluish purple, covered with white down: eyes bright red: mouth tawny: feelers black; first and second joints tawny; bristle a little shorter than the chest; chest bluish green; hind part blue; sides and breast covered with white down: abdomen bright brassy green, tawny for more than half the length from the base; appendages tawny: legs pale tawny, clothed with very short black hairs; feet somewhat darker; wings colourless, very indistinct; wing-ribs and poisers tawny; veins brown. Length of the body  $1\frac{3}{4}$  line; of the wings  $3\frac{1}{2}$  lines.

a. ——— ?

*PSILOPUS nigrofemoratus*, MSS. *Cyaneo-aut aurco-viridis, antennis nigris capite duplo longioribus, pedibus nigris tibiis fulvis, alis limpidis.*

Head and chest bright bluish green, armed with black bristles: head covered in front with white down, clothed beneath with white hairs: eyes red: mouth tawny: feelers black, about twice the length of the head: breast and underside of the abdomen covered with white bloom: abdomen golden green, blue at the base, coppery at the tip: legs black, beset with a few black bristles; shanks tawny, with black tips: wings colourless: wing-ribs tawny; veins black; poisers yellow. Length of the body  $1\frac{1}{4}$  line; of the wings  $2\frac{1}{2}$  lines.

Var.  $\beta$ . Chest golden green, bluish green behind: abdomen coppery green: tips of the thighs and the whole of the shanks tawny.

Var.  $\gamma$ . Abdomen bright green or bluish green; a bronze band on the fore border of each segment.

a. North America. Presented by the Entomological Club.

b. Nova Scotia. From Lieut. Redman's collection.

*PSILOPUS albicoxa*, *MSS.*, mas. et fem. *Cyaneo- aut cupreo- viridis, antennis nigris capite duplo longioribus, pedibus flavis, tarsis posticis nigris, alis subcinereis.*

Head and chest armed with black bristles: head bluish green, covered in front with white down, clothed beneath with white hairs: eyes red: mouth tawny: feelers black, about twice the length of the head: palpi black: chest of the male bluish green, sometimes black towards the tip, of the female bright green or coppery green; sutures of the segments sometimes black: breast and underside of the abdomen covered with white down: legs yellow, adorned with rows of minute spines, clothed with a few white hairs, and beset with a few black bristles; four hinder hips green; tips of feet black; hind feet black; first joint brownish: wings slightly gray; wing-ribs tawny; veins black; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings  $2\frac{1}{2}$  lines.

- a. North America. Presented by the Entomological Club.
- b. Ohio. Presented by the Entomological Club.
- c. Massachusetts. From Prof. Sheppard's collection.
- d. Nova Scotia. From Lieut. Redman's collection.

### *CHRYSOTUS, Meigen.*

*CHRYSOTUS neglectus*, *Meig. Dipt.* iv. 41, 1, *pl.* 35, *f.* 10. *Macq. Dipt. Nord.* 19, 1. *Hist. Nat. Dipt.* i. 446, 1, *pl.* 10, *f.* 21. *Zett. Ins. Lapp.* 795, 1. *Dolichopus neglectus*, *Wied. Zool. Mag.* i. 74, 22. *D. viridulus*, *Fall. Dolich.* 18, 23.

- a. England. Presented by F. Walker, Esq.

*CHRYSOTUS copiosus*, *Meig. Dipt.* iv. 41, 2. *Macq. Hist. Nat. Dipt.* i. 446, 2.

- a. England. Presented by F. Walker, Esq.

*CHRYSOTUS cilipes*, *Meig. Dipt.* iv. 41, 3.

- a. England.

*CHRYSOTUS femoralis*, *Megerle, Meig. Dipt.* iv. 42, 5. *Macq. Hist. Nat. Dipt.* i. 446, 3.

- a. England. Presented by F. Walker, Esq.

*CHRYSOTUS incertus*, n. s. *Viridis, antennis nigris, femoribus viridibus, tibiis fulvis, apice tarsisque obscurioribus, alis limpidis.*

Allied to *C. femoralis*. Body green, beset with black hairs and bristles: eyes red: mouth and feelers black: hips and thighs

green; shanks tawny; feet and tips of shanks dark tawny: wings colourless; wing-ribs pitchy; veins black; poisers tawny.

a. United States. Presented by the Entomological Club.

**CHRYSOTUS nigripes**, *Meig. Dipt. iv. 42, 6. Macq. Hist. Nat. Dipt. i. 447, 4. Musca nigripes, Fabr. Ent. Syst. iv. 341, 122. Dolichopus nigripes, Fabr. Syst. Antl. 269, 12. D. gramineus? Fall. Dolich. 19, 24. Chrysotus gramineus? Zett. Ins. Lapp. 705, 2.*

a. England. Presented by F. Walker, Esq.

b. France.

**CHRYSOTUS læsus**, *Meig. Dipt. iv. 43, 7. Macq. Hist. Nat. Dipt. i. 447, 5. Dolichopus lætus, Wied. Zool. Mag. i. 75, 21.*

a. England. Presented by F. Walker, Esq.

**CHRYSOTUS lætus**, *Wied. Meig. Dipt. iv. 43, 8.*

a. England. Presented by F. Walker, Esq.

### PORPHYROPS, *Meigen*.

Group I. *Haliday, Zool. Journ. v. 354. Argyra, Macquart.*

**PORPHYROPS diaphanus**, *Meig. Dipt. iv. 46, 1, pl. 35, f. 5. P. versicolor, Meig. Dipt. iv. 50, 9, fem. P. leucocephalus? Meig. Dipt. iv. 49, 8, fem.? vi. 362. Zett. Ins. Lapp. 712, 17. Musca diaphana, Fabr. Sp. Ins. ii. 448, 70. Ent. Syst. Suppl. 564, 126. Gmel. Ed. Syst. Nat. v. 2852, 229. M. ludens? Harr. Ex. 157, pl. 47, f. 3. Dolichopus diaphanus, Fabr. Syst. Antl. 270, 18. Fall. Dolich. 16, 19. Zett. Ins. Lapp. 712, 17. Argyra diaphana, Macq. Hist. Nat. Dipt. i. 456, 1, pl. 10, f. 25.*

a. England.

b. France.

c. ———? From Mr. Children's collection.

**PORPHYROPS argyrius**, *Meig. Dipt. iv. 46, 2. Argyra argentata, Macq. Hist. Nat. Dipt. i. 457, 2.*

a. England. Presented by F. Walker, Esq.

b. France.

**PORPHYROPS argentinus**, *Meig. Dipt. iv. 47, 3.*

a. England.

b. England. Presented by F. Walker, Esq.

**PORPHYROPS aulicus**, *Meig. Dipt.* iv. 48, 6.

a. England.

b. ———?

**PORPHYROPS chetifer**, *Haliday's MSS.* *Viridis, thoracis vittis abdominisque segmentorum suturis æneis, antennis nigris, pedibus fulvis, tarsis posticis nigris, tarsis anticis mari. apice nigris latioribus, alis subfulvis.*

Body green, beset with black bristles: head covered in front with white down: eyes bright red: mouth tawny: feelers black; bristle more than twice the length of all the preceding joints: chest adorned with indistinct brassy stripes, slightly covered with white bloom, which is more thick on the breast: abdomen covered with a slight white bloom; sutures of the segments brassy: legs tawny, clothed with very short black hairs, beset with black bristles; shanks rather darker than the thighs; feet of the male dark tawny; middle feet paler at the base; fore feet pale tawny, their tips black, slightly widened; feet of the female darker than the shanks, hind feet black: wings with a slight tawny tinge; wing-ribs and poisers tawny; veins brown, tawny towards the base. Length of the body  $1\frac{1}{2}$  line; of the wings 4 lines.

a. England.

**PORPHYROPS pilosicornis**, *Barnston's MSS.* *Æneo-viridis, antennis nigris, pedibus fulvis, tarsis piceis, femoribus posticis apice fuscomaculatis, alis limpidis.*

Body brassy green, beset with black bristles: eyes dark red: mouth dark tawny: feelers black; bristle downy, proceeding from the base of the third joint and more than twice its length: breast and sides of the chest covered with a white bloom, which appears also on the chest, but is there very slight: legs tawny, clothed with short black hairs, beset with a few black bristles; feet pitchy; a small brown mark on the tip of each hind thigh; fore hips at the base and the other hips green and covered with white bloom: wings colourless; wing-ribs tawny; veins black; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings  $2\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## Group II. *Haliday, Zool. Journ.* v. 355.

**PORPHYROPS annulipes**, *Meig. Dipt.* iv. 56, 25.

a. England.



Group III. *Plectropus*, *Haliday, Zool. Journ. v. 353.*

*PORPHYROPS pallipes*, *Meig. Dipt. iv. 55, 23. Musca pallipes*, *Fabr. Ent. Syst. iv. 340, 116. Dolichopus pallipes*, *Fabr. Syst. Antl. 266, 2.*

a. England.

*MEDETERUS, Fischer.*Group I. *Haliday, Zool. Journ. v. 355.*

*MEDETERUS regius*, *Meig. Dipt. iv. 60, 1. Macq. Hist. Nat. Dipt. i. 451, 1, pl. 10, f. 24. Dolichopus regius*, *Fabr. Syst. Antl. 267, 5. Latr. Gen. Crust. iv. 292. D. virens*, *Lam. Anim. sans Verteb. iii. 425, 4. Musca virens*, *Panz. Faun. Germ. 54, 16. Hydrophorus regius*, *Fall. Dolich. 2, 1. Zett. Ins. Lapp. 700, 1.*

a. England.

*MEDETERUS viridis*, *Meig. Dipt. iv. 60, 2.*

a. England.

*MEDETERUS rostratus?* *Meig. Dipt. iv. 61, 3. Macq. Hist. Nat. Dipt. ii. 452, 2. Musca rostrata*, *Fabr. Sp. Ins. ii. 448, 68. Ent. Syst. iv. 342, 125. Gmel. Ed. Syst. Nat. v. 2582, 227. Dolichopus rostratus*, *Fabr. Syst. Antl. 269, 15. Latr. Gen. Crust. iv. 292. Medetera*, *Fischer, Prog. Mosk. 1819.*

England.

*MEDETERUS ornithogalli*, *Leach, MSS. Aeneo-viridis, aureo suffusa, pedibus nigris, antennis pedibusque nigris, femoribus viridibus, alis albo-fulvis.*

Body brassy green, covered with golden bloom, which is arranged in stripes on the chest: eyes dark red: feelers and mouth black: chest beset with a few black bristles: legs black, covered with tawny down; thighs bright green: wings pale tawny, white at the base and on the disks of the veins; wing-ribs and veins tawny, the latter pitchy towards the tips; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 4 lines.

a. Tristram da Cunha. From Dr. Leach's collection.

*MEDETERUS Tristramensis*, *Leach, MSS. Fulvo-cinereus, antennis pedibusque nigris, alis subcinereis.*

Body gray, with a slight tawny tinge: eyes brassy: mouth and feelers black: legs green, beset with a few short black bristles, co-

vered with pale tawny down; feet black: wings slightly gray; wing-ribs pitchy; veins black; poisers ferruginous. Length of the body  $2\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. Tristram da Cunha. (See Linn. Trans. xii.) From Dr. Leach's collection.

*MEDETERUS glaber*, Barnston's MSS. *Viridis, thoracis disco nigro-æneo, abdomine æneo-viridi, antennis nigris, pedibus viridibus, tarsis nigris, alis cinereis fusco bimaculatis.*

Body green: head and chest beset with a few black hairs: head covered with white bloom in the male, with golden bloom in the female: eyes red: mouth and feelers black: disk of the chest bronze-black; sides covered with tawny bloom; breast covered with white bloom: abdomen brassy green, covered above with short tawny hairs; underside covered with white bloom: legs bright green, rather stout, clothed with short black hairs and bristles; hips covered with white bloom; feet black: wings gray; each with two small brown spots, one on the cross-vein, the other on the fourth longitudinal vein, a little before half the distance between the cross-vein and the tip of the wing; wing-ribs pitchy; veins black; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*MEDETERUS chrysologus*, Barnston's MSS., fem. *Nigro-æneus, antennis nigris, pedibus viridibus, tarsis nigris, alis cinereis, fusco bimaculatis ad costam subfuscis.*

Body brassy black: head covered with golden bloom, which is paler and brighter towards the mouth: eyes dark red, covered with white down: mouth and feelers black: sides of the chest covered with tawny bloom: breast and underside of the abdomen adorned with white bloom; a row of black punctures on each side of the abdomen, as in other species: legs green, clothed with black hairs and bristles; hips and thighs covered with white bloom; feet black: wings gray, brown along the fore borders; each with two darker brown spots like those of *M. glaber*, but larger and more distinct; wing-ribs tawny; veins black; poisers pitchy. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**MEDETERUS albiflorens**, n. s., fem. *Æneus fulvo pubescens subtus albus, abdomine cupreo-viridi, antennis nigris, pedibus viridibus, tarsis piceis, alis cinereis fusco subvittatis.*

Head and chest bronzed, beset with a few black bristles, thickly covered with tawny bloom: eyes dark red, covered with white down: mouth and feelers black: abdomen rather light green, mingled with copper-colour, thinly clothed with short black hairs, not longer than the chest: hind chest, breast, and underside of the abdomen covered with white bloom: legs long, slender, green, slightly covered with tawny bloom, beset with short black hairs and bristles; feet pitchy towards the tips; claws black; foot-cushions pale yellow: wings gray, very slightly clouded with brown along the borders of the veins; wing-ribs pitchy; veins black; poisers tawny, pitchy, and covered with white bloom towards the tips. Length of the body  $1\frac{1}{2}$ — $1\frac{3}{4}$  line; of the wings  $4$ — $4\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

**MEDETERUS notatus**, Meig. Dipt. iv. 62, 6. Curt. Brit. Ent. pl. 162. Guér. Icon. Regn. Anim. Ins. pl. 96, f. 5. Macq. Hist. Nat. Dipt. i. 452, 2. Musca notata, Fabr. Sp. Ins. ii. 448, 65. Ent. Syst. iv. 341, 120. Gmel. Ed. Syst. Nat. v. 2851, 225. Dolichopus notatus, Fabr. Syst. Antl. 269, 10. Hydrophorus armiger, Fall. Dolich. 4, 5. H. notatus, Zett. Ins. Lapp. 701, 4.

a. England. Presented by F. Walker, Esq.

**MEDETERUS bipunctatus**, Wied. Meig. Dipt. iv. 637. Macq. Hist. Nat. Dipt. i. 453, 6.  
a. England.

**MEDETERUS piceox**, Wied. Meig. Dipt. iv. 64, 8. Hal. Zool. Journ. v. 357, 8.

a. England.

**MEDETERUS curvipes**, Meig. Dipt. iv. 65, 10. Hal. Zool. Journ. v. 357, 10. Macq. Hist. Nat. Dipt. i. 453, 8. Dolichopus curvipes, Fall. Dolich. 20, 27. Zett. Ins. Lapp. 713, 22.

a. England.

**MEDETERUS loripes**, Hal. Zool. Journ. v. 357, 11.

a. England. Presented by F. Walker, Esq.

**MEDETERUS truncorum**, Winth. Meig. Dipt. iv. 67, 15. Hydrophorus truncorum, Zett. Ins. Lapp. 702, 8.

a. England.

Group II. *Camptosceles*, Haliday, *Zool. Journ.* v. 357.

**MEDETERUS** *Scambus*, Meig. *Dipt.* iv. 68, 18. *Hal. Zool. Journ.* v. 357, 9. *Macq. Hist. Nat. Dipt.* i. 454, 9. *M. prodromus*, Meig. *Dipt.* iv. 64, 9, fem. *Hal. Zool. Journ.* v. 358, 12. *Dolichopus Scambus*, Fall. *Dolich.* 19, 26. *Zett. Ins. Lapp.* 713, 21.

a. England.

Group III. *Hydrophorus*, Fallen.

**MEDETERUS** *nebulosus*, Meig. *Dipt.* iv. 68, 19. *Hydrophorus nebulosus*, Fall. *Dolich.* 3, 4. *Macq. Dipt. Nord.* 38, 3. *Hist. Nat. Dipt.* i. 445, 3. *Zett. Ins. Lapp.* 701, 5.

a. England. Presented by F. Walker, Esq.

**SYBISTROMA**, Megerle.

**SYBISTROMA** *patellipes*, Meig. *Dipt.* iv. 72, 2.

a. England.

**DOLICHOPUS**, Latreille.

**DOLICHOPUS** *nobilitatus*, Fabr. *Syst. Anth.* 268, 6. *Latr. Gen. Crust.* iv. 292. *Fall. Dolich.* 13, 12. *Meig. Dipt.* iv. 75, 1. *Macq. Dipt. Nord.* 59, 1. *Hist. Nat. Dipt.* i. 459, 1. *Ann. Soc. Ent.* 2me. série ii. 186, pl. 5, f. 39, 40. *Støger, Entom. Tidsskrift.* iv. 37, 30. *Stann. Isis.* 1831, 140, 34. *Musca nobilitata*, Linn. *Syst. Nat.* ii. 995. *Turt.* iii. 613. *Gmel. Ed. Syst. Nat.* v. 2851, 98. *Fabr. Sp. Ins.* ii. 447, 63. *Ent. Syst.* iv. 340, 118. *Musca*, &c., Geoff. *Ins.* ii. 523, 55. *Rhagio nobilitatus*, Schrank, *Faun. Boic.* iii. 100, 2397. *Musca joco*, Harr. *Ex.* 157, pl. 47, f. 1.

a. England.

b. France.

**DOLICHOPUS** *atratus*, Hoffmansegg, Meig. *Dipt.* iv. 76, 3. *Hal. Zool. Journ.* v. 360, 7. *Macq. Dipt. Nord.* 69, 3. *Hist. Nat. Dipt.* i. 461, 11. *Zett. Ins. Lapp.* 710, 10.

a. Hammerfest, Finmark. Presented by F. Walker, Esq.

*DOLICHOPUS chalybeus*, *Wied. Zool. Mag.* i. 72, 18. *Meig. Dipt.* iv. 79, 10. ? *Macq. Hist. Nat. Dipt.* i. 462, 13. ? *Ann. Soc. Ent. France*, 2me série. ii. 186, pl. 5, f. 41, 42. ? *Stann. Isis.* 1831, 142, 35. *Stæger, Kroyer, Tids.* iv. 37, 31. "Non *Meig. Macq. Conf. D. unguatus*, var.  $\beta$ ." *Stæger, Kroyer, Tids.* iv. 33, 37.

a. England.

b. France.

*DOLICHOPUS nitidus*, *Fall. Dolich.* 12, 9. *Meig. Dipt.* iv. 80, 12. *Macq. Ann. Soc. Ent. France*, 2me série, ii. 185, pl. 4, f. 5, 6. *Stæger, Kroyer, Tids.* iv. 15, 4. *D. nitens*, *Stann. Isis.* 1381, 48, 3.

a. Isle of Sorøe, Finmark. Presented by F. Walker, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

c. Hammerfest, Finmark. Presented by F. Walker, Esq.

*DOLICHOPUS unguatus*, *Fabr. Syst. Antl.* 266, 3. *Latr. Gen. Crust.* iv. 292. *Cons. Gén.* 443. *Lam. Anim. sans Verteb.* iii. 425, 2. *Fall. Dolich.* 9, 2. *Meig. Dipt.* iv. 80, 13. *Guér. Icon. Regn. Anim. Ins.* pl. 96, f. 4. *Macq. Dipt. Nord.* 62, 8, pl. 1, f. 7. *Hist. Nat. Dipt.* i. 462, 15, pl. 10, f. 27. *Hal. Zool. Journ.* v. 359, 2. *Zett. Ins. Lapp.* 708, 2. *Stann. Isis.* 1831, 130, 25. *Stæger, Kroyer, Tids.* iv. 33, 25. *D. chalybeus*? *Meig. Dipt.* iv. 79, 10. *Macq. Hist. Nat. Dipt.* i. 462, 13. xi. *Ann. Soc. Ent. France*, 2me série, ii. 186, pl. 5, f. 41, 42. *Musca unguata*, *Linn. Faun. Suec.* 1858. *Gmel. Ed. Syst. Nat.* v. 2851, 97. *Fabr. Sp. Ins.* ii. 447, 62. *Ent. Syst.* iv. 340, 117. *Schrank, Ins. Austr.* 947. *Faun. Boic.* iii. 123, 2457. *Panz. Faun. Germ.* xx. 21. *Stew. El.* ii. 267. *Turt.* iii. 613. *Musca*, &c., *Geoff. Ins.* ii. 522, 54. *Nemotelus æneus*, *Deg. Ins.* vi. 78, 15, pl. 11, f. 14, 22.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

d. Alten, Finmark. Presented by F. Walker, Esq.

e. Hammerfest, Finmark. Presented by F. Walker, Esq.

*DOLICHOPUS nigricornis*, *Meg. Meig. Dipt.* iv. 82, 14. *Macq. Hist. Nat. Dipt.* ii. 463, 19.

a. England.

*DOLICHOPUS plumitarsis*, *Fall. Dolich.* 10, 4. *Meig. Dipt.* iv. 89, 26.

a. England.

b. France.

*DOLICHOPUS pennitarsis*, *Fall. Dolich.* 11, 6. *Meig. Dipt.* iv. 90, 29. *Hal. Zool. Journ.* v. 362, 15. *Macq. Dipt. Nord.* 69, 23. *Hist. Nat. Dipt.* i. 466, 34. *Zett. Ins. Lapp.* 709, 9. *Stann. Isis.* 1831, 63, 14. *Stæger, Kroyer, Tids.* iv. 25, 15.

a. England. Presented by F. Walker, Esq.

b. Hammerfest, Finmark. Presented by F. Walker, Esq.

*DOLICHOPUS brevipennis*, *Fall. Meig. Dipt.* iv. 89, 26. *Macq. Ann. Soc. Ent. France, 2me série*, ii. 185, pl. 4, f. 19, 20. *Zett. Ins. Lapp.* 709, 8. *Stann. Isis.* 1831, 60, 12. *Stæger, Kroyer, Tids.* iv. 23, 13. *D. plumitarsis*, *Fall. Dolich.* 10, 4, var.  $\beta$ .

a. England.

*DOLICHOPUS popularis*, *Hoffmansegg, Wied. Zool. Mag.* i. 70, 15. *Fall. Dolich.* 11, 7. *Meig. Dipt.* iv. 91, 30. *Macq. Dipt. Nord.* 70, 25. *Hist. Nat. Dipt.* i. 466, 35. *Ann. Soc. Ent. France, 2me série*, ii. 185, pl. 5, f. 29, 30. *Stann. Isis.* 1831, 66, 16. *Stæger, Kroyer, Tids.* iv. 26, 17.

a. England.

*DOLICHOPUS inquinatus*, *Hal. Zool. Journ.* v.

a. England.

*DOLICHOPUS plebeius*, *Meig. Dipt.* iv. 99, 44. *Zett. Ins. Lapp.* 710, 11.

a. England.

*DOLICHOPUS affinis*, *Haliday's MSS.*, mas. et fem. *Cyaneo- aut cupreo-viridis; antennis nigris, pedibus flavis, femoribus posticis tarsisque fulvis, tarsis anticis, mari. apice nigris dilatatis, tarsis posticis nigris, alis limpidis.*

*Male*.—Head and chest green, armed with stout black bristles: head fringed behind with pale tawny hairs, covered in front and beneath with white bloom: eyes red, covered with white down: feelers black: chest bluish green on the disk: abdomen coppery green, clothed with short black hairs, covered with white bloom beneath and on each side, where there is a row of black punctures: appendages pale yellow: legs yellow, clothed with short black hairs; four hinder hips green; hind thighs tawny, furnished with a few tawny hairs; shanks and feet armed with black bristles; feet tawny, darker towards the tips; hind feet black; tips of fore feet black, widened: wings colourless; wing-ribs and poisers yellow; veins pitchy. *Fem*.—Body coppery green: legs tawny; shanks darker

than the thighs; hind feet pitchy. Length of the body 2—2½ lines; of the wings 4—5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*DOLICHOPUS cuprinus?* Wied. Auss. Zweif. ii. 230, 1. *D. cupreus?* Say, Journ. Acad. Philad. iii. 8, 6. *Aureo-viridis, thorace vittis tribus cupreis, antennis fulvis apice fuscis, pedibus flavis, tarsis apice nigris, anticis apice nigro-fasciculatis, alis subcinereis.*

Body green, covered above with golden down, beneath with white down: head and chest armed with stout black bristles: hind part of the head fringed with white hairs: eyes red: mouth yellow: feelers tawny, covered with short black hairs; their tips brown; bristle pubescent, pitchy, longer than the rest of the feelers: chest adorned with three coppery stripes: abdomen golden green, clothed with short black hairs, white beneath and on each side, where it has a row of black punctures; appendages yellow: legs yellow, clothed with black hairs; four hinder hips green; feet towards the base and shanks armed with black bristles; four hinder feet black towards the tips; tips of fore feet adorned with tufts of black hairs: wings slightly gray; wing-ribs tawny; veins pitchy; poisers yellow. Length of the body 2½ lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*DOLICHOPUS lamellipes, Barnston's MSS., mas. et fem. Viridis aut viridi-cupreus, abdomine subtus albo pubescente, antennis nigris basi rufis, articulo 3º mari. longo, pedibus fulvis, tarsis nigris, intermediis basi fulvis anticis mari. apice dilatatis, alis limpidis.*

Body green: head and chest armed with black bristles: head covered with silvery down, fringed behind with black hairs: eyes red: mouth tawny: feelers black; first joint pale red; third joint very long: abdomen clothed with black hairs, adorned with a coppery tinge towards the tip, which is black, covered with white bloom beneath and on each side, where there is a row of black punctures: legs pale tawny, four hinder hips green, clothed with black hairs and bristles; feet black; tips of fore feet widened; middle feet tawny towards the base: wings colourless; wing-ribs tawny; veins pitchy; poisers pale tawny. *Fem.*—Third joint of the feelers short, nearly round. Length of the body 2½—3 lines; of the wings 5 lines.

Var. β. Chest and abdomen coppery.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*DOLICHOPUS ciliatus*, Barnston's MSS., mas. et fem. *Viridis, capitulis fronte aureo-pubescente, antennis fulvis, articulo 3<sup>o</sup> supra nigro, pedibus fulvis, tarsis piceis, alis subcinereis.*

Body green: head covered in front with golden down: eyes red: mouth black: feelers tawny; third joint nearly oval, black, from near the base to the tip above, and from half its length to the tip beneath; bristle black: breast and sides of the chest and of the abdomen covered with white bloom; appendages of the abdomen tawny; scales white: legs tawny; feet pitchy; fore feet dark tawny: wings slightly gray; wing-ribs tawny; veins black; poisers yellow. Length of the body  $1\frac{1}{2}$ — $1\frac{3}{4}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*DOLICHOPUS adjacens*, n. s., fem. *Æneus viridi varius, capite cyaneo-viridi, antennis nigris, pedibus fulvis, tarsis posticis piceis, alis subcinereis.*

Head bluish green on the crown, covered in front with yellowish white down, fringed along the eyes with hoary hairs: eyes red: mouth pitchy; palpi tawny: feelers black; third joint very short: chest and abdomen brassy, mingled with green: breast and sides of the chest covered with gray bloom, which also appears beneath the abdomen, but is more slight: legs tawny; hips green, covered with gray bloom; fore hips mostly tawny; feet darker than the shanks, especially towards the tips; hind feet pitchy: wings slightly gray; wing-ribs and poisers tawny; veins black. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*DOLICHOPUS coercens*, n. s., mas. *Viridis, capite cyaneo-viridi, thoracis lateribus cupreo et cyaneo ornatis, abdomine cupreo vario, apice nigro, antennis nigris, pedibus fulvis, alis limpidis.*

Head bluish green, covered in front with pale tawny down, fringed along the eyes with white hairs: eyes bright red: mouth pitchy: feelers black; third joint very short: chest green, slightly tinged on each side with blue and copper-colour; disk sometimes bluish green: breast covered with hoary down: abdomen green, with a coppery tinge here and there; tip black; appendages pale tawny; scales white, bordered with black: legs tawny; hips towards the base green, and covered with a white bloom; shanks beset with black bristles; feet pitchy towards the tips; fore feet slender, pale tawny, their tips black, and much widened: wings co-



lourless; wing-ribs and poisers tawny; veins black. Length of the body 3 lines; of the wings  $5\frac{1}{2}$  lines.

a. New York. Presented by the Entomological Club.

*DOLICHOPUS finitus*, n. s., mas. *Viridis, thoracis lateribus abdomineque cupreo variis, hujus lateribus basi cyaneo-viridibus, antennis nigris, pedibus fulvis, tarsis apice nigris, tarsis anticis apice latis, tarsis posticis nigris, alis subcinereis.*

Body green: head covered in front with white down, fringed along the eyes with white hairs: eyes red: mouth pitchy; palpi tawny: feelers black; third joint rather large: chest with a slight coppery tinge on each side, which, like the breast, is slightly covered with hoary bloom: abdomen tinged with coppery colour, and with a slight blue hue on each side towards the base; appendages at the tip tawny; scales white, bordered with black: legs tawny; middle feet towards the tips, and hind feet, excepting the base, black; tips of fore feet black, and somewhat widened: wings slightly gray; wing-ribs and poisers tawny; veins pitchy. *Fem.*—Feet black, tawny at the base. Length of the body 3 lines; of the wings 5 lines.

a. New York. Presented by the Entomological Club.

*DOLICHOPUS distractus*, n. s. *Viridis, abdomine cupreo, antennis nigris, articulo 1<sup>o</sup> subtus fulvo, pedibus fulvis, tarsis apice piceis, alis subcinereis.*

Body green: head covered in front with white down, clothed on each side of the eyes with white hairs: eyes bright red: feelers black; first joint tawny beneath; third joint short and broad: abdomen copper-coloured: legs tawny; feet pitchy towards the tips: wings slightly gray; wing-ribs and poisers tawny; veins black. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New York. Presented by E. Doubleday, Esq.

*DOLICHOPUS discessus*, n. s., fem. *Cyaneo-viridis, thorace cupreo bivittato, abdomine æneo-viridi, antennis pedibusque fulvis, tarsis posticis piceis, alis subcinereis.*

Body bluish green: head covered in front with white down: eyes bright red: mouth and feelers tawny; bristle black: chest adorned with two bright copper-coloured stripes; sides and breast covered with white bloom: abdomen green, brassy here and there, especially towards the tip; sides and underside covered with white down: legs tawny; tips of feet and hind feet, except the base,

pitchy: wings slightly gray; wing-ribs and poisers tawny; veins black. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. Massachusetts. From Prof. Sheppard's collection.

*DOLICHOPUS contiguus*, n. s., mas. *Aureo-viridis, thorace viridicyaneo, lateribus purpureo variis, abdomine cyaneo et cupreo vario, antennis nigris, pedibus fulvis tarsis anticis apice nigris latis, tarsis mediis piceis basi fulvis, tarsis posticis nigris, alis limpidis.*

Head golden green, covered in front with pale tawny down: eyes bright red: feelers black; third joint oval: chest greenish blue, with a slight purple tinge on each side: abdomen golden green, slightly bluish and coppery here and there: breast and under-side of the abdomen covered with hoary bloom; tip black; appendages tawny; scales whitish: legs tawny; four hinder hips mostly green, and tinged with hoary bloom; tips of fore feet black, much widened; middle feet pitchy, tawny at the base; hind feet black: wings colourless; wing-ribs and poisers tawny; veins pitchy, tawny towards the base. Length of the body 2 lines; of the wings 4 lines.

a. New York. Presented by the Entomological Club.

*DOLICHOPUS exclusus*, n. s., fem. *Cupreus, nonnunquam viridi varius, abdomine purpureo-cupreo, antennis nigris, articulo 1<sup>o</sup> subtus fulvo, pedibus fulvis, tarsis nigris, alis subcinereis.*

Body coppery, sometimes varied with green: head covered in front with white bloom: eyes red: mouth pitchy; palpi tawny: feelers black; first joint tawny beneath; third joint oval, as long as the first and the second: breast covered with gray bloom: abdomen purplish copper-colour, covered beneath with gray bloom: legs tawny; hips coppery; fore hips mostly tawny; feet black: wings slightly gray; wing-ribs tawny; veins black; poisers pale tawny. Length of the body 2 lines; of the wings  $4\frac{1}{2}$  lines.

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*DOLICHOPUS directus*, n. s., fem. *Cyaneo-viridis, abdomine æneoviridi, antennis fulvis, articulo 3<sup>o</sup> nigro, pedibus fulvis, tibiis apice tarsisque piceis, alis subcinereis.*

Body bluish green, thickly covered with tawny bloom, beset with black hairs and bristles: eyes red, fringed on each side with white hairs: mouth dark tawny: feelers tawny; third joint black; bristle black, as long as the head: disk of the chest shining: breast

covered with white bloom : abdomen brassy green, covered beneath with white bloom : legs pale tawny, clothed with short black hairs and with a few black bristles ; middle hips partly green ; tips of shanks pitchy ; feet pitchy, pale at the base : wings slightly gray ; wing-ribs pale tawny ; veins pitchy ; fourth longitudinal vein straight ; poisers yellow, tawny towards the base. Length of the body  $2\frac{1}{2}$  lines ; of the wings  $4\frac{1}{2}$  lines.

a. Interior of South Africa. Presented by the Earl of Derby.

*DOLICHOPUS confinis*, n. s., fem. *Æneus, viridi varius, capite viridi, antennis nigris, pedibus fulvis, tarsis piceis, tibiis posticis apice tarsisque posticis nigris, alis cinereis.*

Body brassy, mingled here and there with green : head green, covered in front with white down, clothed along the sides of the eyes with white hairs : eyes red : mouth pitchy : feelers black ; third joint nearly oval, rather short : breast covered with white bloom : legs tawny ; feet pitchy, tawny towards the base ; hind feet and tips of hind shanks black : wings gray ; wing-ribs and poisers tawny ; veins black. Length of the body 2 lines ; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq

*DOLICHOPUS conterminus*, n. s., mas. *Viridis, thoracis disco abdomineque aureo-viridibus, hujus apice æneo, antennis nigris, pedibus fulvis, tarsis anticis apice nigris latis, tarsis mediis apice posticisque piceis, alis limpidis, fem. tarsis piceis basi fulvis, tarsis posticis nigris.*

Body bright green : head covered with tawny down, fringed along the sides of the eyes with white hairs : eyes bright red, covered with white down : mouth pitchy ; palpi tawny : feelers black ; third joint rather large : abdomen and disk of the chest golden green : breast and sides of the chest covered with hoary bloom, which also slightly tinges the underside of the abdomen : tip of the abdomen brassy ; appendages tawny ; scales white, slightly bordered with black : legs pale bright tawny ; four hind hips mostly green, and covered with a white bloom ; thighs fringed with white hairs : fore feet slender, with black and much widened tips ; middle feet pitchy towards the tips ; hind feet pitchy : wings colourless ; wing-ribs tawny ; veins black ; poisers pale tawny. *Fem.*—Feet pitchy, tawny towards the base ; hind feet black. Length of the body 2 lines ; of the wings 4 lines.

a. New York. Presented by E. Doubleday, Esq.

b. North America. Presented by the Entomological Club.

**DOLICHOPUS separatus**, n. s., fem. *Viridis, abdominis apice cupreo, antennis fulvis, articulo 3<sup>o</sup> apice nigro, pedibus fulvis, tarsis nigris, alis subcinereis.*

Body green: head covered in front with tawny down: eyes red: mouth pitchy; palpi tawny: feelers tawny; third joint oval, black towards the tip; bristle black: breast, sides of the chest and under-side of the abdomen covered with white bloom: abdomen coppery towards the tip: legs tawny; four hind hips green, covered with white bloom; feet black: wings slightly gray; wing-ribs and poisers tawny; veins black. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**DOLICHOPUS terminatus**, n. s., fem. *Aureo-viridis, capite cyaneo-viridi, abdomine cupreo basi viridi, antennis nigris, pedibus fulvis, tarsis piceis basi fulvis, alis subcinereis fusco subvittatis.*

Head bluish green, covered in front with golden down, fringed on each side with white hairs: eyes bright red: mouth pitchy; palpi tawny: feelers black; third joint nearly oval: chest golden green; sides and breast covered with hoary bloom, which also appears beneath the abdomen: abdomen copper-colour, green at the base: legs tawny; four hind hips green, covered with white bloom; feet pitchy, tawny towards the base: wings slightly gray, indistinctly tinged with brown along the borders of the veins; wing-ribs and poisers tawny; veins pitchy. Length of the body 2 lines; of the wings 4 lines.

a. North America. Presented by the Entomological Club.

**DOLICHOPUS indirectus**, n. s., fem. *Viridis, abdomine cyaneo-viridi, fasciis cupreo-viridibus, antennis fulvis, articulo 3<sup>o</sup> nigro, pedibus fulvis, tibiis apice tarsisque piceis, alis cinereis.*

Body green, beset with black hairs and bristles: head and disk of the chest covered with tawny bloom: head covered beneath with white bloom, fringed with white hairs along the sides of the eyes: eyes red: mouth black: feelers tawny; third joint black; bristle black, a little longer than all the other joints: breast covered with white bloom: abdomen bluish green, adorned with a broad coppery green band along the hind border of each segment: legs tawny, beset with black hairs and bristles; hips green; thighs covered with white bloom; tips of shanks and feet pitchy: wings gray: wing-ribs tawny; veins black; fourth longitudinal vein slightly angular;

poisers pale tawny. Length of the body  $2\frac{1}{4}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. West Africa. From Mr. Turner's collection.

**DOLICHOPUS sequax**, n. s. *Cyaneo-viridis, thorace æneo-viridi, abdominis apice æneo, antennis fulvis, articulo 3<sup>o</sup> nigro subtus fulvo, pedibus fulvis, tarsis nigris anticis piceis, alis limpidis.*

Body bluish green: head covered in front with golden down: eyes red: mouth pitchy: feelers tawny; third joint black, tawny beneath towards the base; bristle black: chest with a slight brassy tinge: breast covered with a hoary bloom: abdomen bluish green; tip bronzed; appendages tawny; scales white, with dark borders; underside slightly covered with hoary bloom: legs tawny; feet black: four hind hips mostly green, covered with white down; middle shanks with a slight tuft of black hairs at the base; fore feet pitchy, tawny at the base: wings colourless; wing-ribs and poisers tawny; veins black. Length of the body  $1\frac{3}{4}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**DOLICHOPUS soccatus**, Barnston's MSS. *Æneus, capite viridi, abdomine cupreo basi viridi, antennis fulvis, articulo 3<sup>o</sup> nigro subtus fulvo, pedibus fulvis, tarsis nigris, alis subcinereis.*

Head green, covered in front with hoary down, fringed along the eyes with whitish hairs: eyes red: mouth tawny: feelers tawny; third joint black, very short, tawny beneath till near the tip; bristle black: chest brassy; sides and breast covered with hoary bloom: abdomen coppery, green at the base: legs tawny: feet black: wings slightly gray; wing-ribs tawny; veins black; poisers yellow. Length of the body  $1\frac{3}{4}$  line; of the wings  $3\frac{1}{2}$  lines.

Var.  $\beta$ . Body brassy, tinged with green.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**DOLICHOPUS remotus**, n. s. *Æneo-viridis, capite thoracisque lateribus cyaneo-viridibus, abdomine basi viridi, antennis nigris, pedibus fulvis, tibiis posticis apice tarsisque posticis nigris, alis limpidis.*

Head bluish green, clothed in front with white down, fringed on each side with white hairs: eyes red: feelers black: chest brassy green, bluish green on each side; breast covered with hoary

bloom: abdomen brassy, green at the base, tinged with green on each side, covered with white bloom beneath; tip black; appendages tawny; scales white, bordered with black: legs tawny; tips of feet pitchy; hind feet and tips of hind shanks black: wings colourless; wing-ribs and poisers pale tawny; veins black. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. North America. Presented by the Entomological Club.

*DOLICHOPUS irrasus*, n. s., fem. *Cyaneus*, *abdomine aeneo*, *antennis nigris*, *pedibus fulvis*, *tarsis piceis*, *alis cinereis fusco subcitratis*.

Body deep blue, beset with black hairs and bristles: head covered in front with a silvery bloom: eyes red: mouth and feelers black: chest covered with ferruginous bloom; sides and chest covered with white bloom: abdomen dark bronze, slightly covered with white bloom, not longer than the chest: legs tawny, clothed with black hairs and bristles; feet pitchy: wings gray, brownish along the borders of the veins; wing-ribs and veins black; fourth longitudinal vein slightly bent; poisers dark tawny. Length of the body 1 line; of the wings 2 lines.

a. Florida. Presented by E. Doubleday, Esq.

#### ORTOCHILE, Latreille.

*ORTOCHILE derempta*, n. s. *Viridis*, *thoracis disco cupreo*, *abdomine purpureo*, *basi apiceque cyaneo-viridi*, *lateribus aureo-viridibus*, *antennis nigris*, *pedibus fulvis*, *femoribus viridibus*, *alis subcinereis*.

Body green: head and chest beset with black bristles: eyes and mouth black: feelers black; third joint very short, round; bristle proceeding from its tip: disk of the chest copper-coloured: abdomen purple, clothed with black hairs, bluish green at the base and at the tip, golden green along each side: legs tawny, clothed with short black hairs; hips and thighs green: wings slightly gray; wing-ribs and poisers tawny; veins pitchy. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. North America. Presented by the Entomological Club.

## Fam. XVIII. OXYPTERÆ.

LONCHOPTERA, *Meigen*.

LONCHOPTERA tristis, *Meig. Dipt.* iv. 110, 10, *pl.* 36, *f.* 11. *Macq. Hist. Nat. Dipt.* ii. 15, 8.

a. England. Presented by F. Walker, Esq.

LONCHOPTERA lutea, *Panz. Faun. Germ.* 108, *f.* 20, 21. *Meig. Dipt.* iv. 107, 1. *Macq. Hist. Nat. Dipt.* ii. 14, 1. *Zett. Ins. Lapp.* 792, 1. *Dipsa furcata, Fall. Phytomyz.* 1, 1.

a. England.

LONCHOPTERA flavicauda, *Meig. Dipt.* iv. 107, 2. *Macq. Hist. Nat. Dipt.* ii. 14, 2.

a. England. Presented by F. Walker, Esq.

LONCHOPTERA lacustris, *Meig. Dipt.* iv. 107, 3. *Macq. Hist. Nat. Dipt.* ii. 15, 3.

a. ——— ?

LONCHOPTERA riparia, *Meig. Dipt.* iv. 108, 4. *Macq. Hist. Nat. Dipt.* ii. 15, 4, *pl.* 13, *f.* 10, 11.

a. England. Presented by F. Walker, Esq.

LONCHOPTERA palustris, *Meig. Dipt.* iv. 109, 8.

a. England. Presented by F. Walker, Esq.

LONCHOPTERA rivalis, *Meig. Dipt.* iv. 108, 5. *Macq. Hist. Nat. Dipt.* ii. 15, 5.

a. England. Presented by F. Walker, Esq.

LONCHOPTERA punctum, *Meig. Dipt.* iv. 110, 9.

a. England. Presented by F. Walker, Esq.

*Note.*—Lonchoptera flavicauda = L. riparia = L. rivalis ?

L. lacustris = L. palustris ?

L. nigrimana = L. thoracica ? *Walk. Ent. Mag.* iv. 230.

## Fam. XIX. SCENOPINII.

SCENOPINUS, *Latreille*.

SCENOPINUS fenestralis, *Fabr. Syst. Antl.* 535, 1. *Latr. Gen. Crust.* iv. 349. *Cons. Gén.* 444. *Fall. Scenop.* 5, 1. *Meig. Dipt.* iv.

113, 1. *Macq. Hist. Nat. Dipt.* ii. 6, 1, *pl.* 13, *f.* 1—3. *Zett. Ins. Lapp.* 618, 1. *Musca fenestralis*, *Linn. Syst. Nat.* ii. 981. *Faun. Suec.* 1845. *Gmel. Ed. Syst. Nat.* v. 2844, 14. *Schell. Gen. Mouch.* *pl.* 13, *f.* 1, 2. *Turt.* iii. 608. *Nemotelus fenestralis*, *Deg. Ins.* vi. 77, 11. *Atrichia spoliata*, *Schrank, Faun. Boic.* iii. 2404. *Musca*, &c., *Geoff. Ins.* ii. 532, 73.

a. England.

b. France.

SCENOPINUS senilis, *Fabr. Syst. Antl.* 336, 3. *Meig. Dipt.* iv. 115, 7. *Macq. Hist. Nat. Dipt.* ii. 7, 4.

a. France.

SCENOPINUS niger, *Meig. Dipt.* iii. 116, 9. *Macq. Hist. Nat. Dipt.* ii. 8, 7. *Zett. Ins. Lapp.* 619, 2. *Nemotelus niger*, *Deg. Ins.* vi. 76, 10, *pl.* 9, *f.* 5. *N. tarsatus*, *Panz. Faun. Germ.* 98, 20. *Scenopinus rugosus*, *Fabr. Syst. Antl.* 336, 2, fem. *Meig. Dipt.* iv. 107, 10. *Macq. Hist. Nat. Dipt.* ii. 7, 6. *S. ater*, *Fall. Dipt. Suec. Scen.* 5, 2.

a. England.

b. France.

## Fam. XX. CONOPSARIE.

### CONOPS, Linneus.

CONOPS flavipes, *Linn. Syst. Nat.* ii. 1005. *Faun. Suec.* 1904. *Gmel. Ed. Syst. Nat.* v. 2894, 7. *Fabr. Sp. Ins.* ii. 467, 5. *Ent. Syst.* iv. 393, 8. *Syst. Antl.* 177, 10. *Schæff. Icon.* *pl.* 104, *f.* 2. *Stew. El.* ii. 271. *Panz. Faun. Germ.* 70, 21, 22. *Latr. Gen. Crust.* iv. 336. *Fall. Conops.* 8, 4. *Meig. Klass. Zweif. Ins.* i. 277, 5. *Dipt.* iv. 122, 3. *Lam. Anim. sans Verteb.* iii. 398, 2. *Macq. Hist. Nat. Dipt.* ii. 24, 3, *pl.* 13, *f.* 12. *C. trifasciata*, *Deg. Ins.* vi. 104, 2. *Herbst, Gem. Nat.* viii. 116, 4, *pl.* 70, *f.* 4. *C. melanocephala*, *Meig. Klass. Zweif.* i. 278, 6. *C. macrocephala*, *Sam. Ent. Comp.* 72, *pl.* 9, *f.* 8. *C. vesicularis*, *Harr. Ex.* 70, *pl.* 20, *f.* 1.

a. England.

b. France.

c. Ukraine. Presented by Dr. Dowler.



*CONOPS quadrifasciata*, *Deg. Ins.* vi. 104, 1, pl. 15, f. 1. *Fall. Conops.* 9, 5. *Meig. Dipt.* iv. 123, 4. *Macq. Hist. Nat. Dipt.* ii. 25, 5. *C. aculata*, *Fabr. Sp. Ins.* ii. 466, 2. *Ent. Syst.* iv. 391, 2. *Syst. Antl.* 174, 2. *Latr. Gen. Crust.* iv. 366. *Cons. Gén.* 443. *Schrank, Faun. Boic.* iii. 2562. *Meig. Klass. Zweif.* i. 276, 4. *Lam. Anim. sans Verteb.* iii. 397, 1.

a. ———?

*CONOPS aculeata*, *Linn. Faun. Suec.* 1906. *Gmel. Ed. Syst. Nat.* v. 2893, 1. *Latr. Gen. Crust.* iv. 336. *Meig. Dipt.* iv. 124, 5. *Macq. Hist. Nat. Dipt.* ii. 25, 6. *C. scutellata*, *Meig. Klass. Zweif.* i. 276, 6.

a. England.

b. France.

c. ———?

d. ———? From Mr. Children's collection.

*CONOPS macrocephala*, *Linn. Faun. Suec.* 1902. *Gmel. Ed. Syst. Nat.* v. 2893, 5. *Fabr. Sp. Ins.* ii. 4664. *Ent. Syst.* iv. 393, 7. *Syst. Antl.* 176, 9. *Deg. Ins.* vi. 105, 3. *Fall. Conops.* 7, 2. *Coq. Icon.* 120, pl. 27, f. 5. *Meig. Dipt.* iv. 125, 8. *Macq. Hist. Nat. Dipt.* ii. 24, 2.

a. France.

*CONOPS rufipes*, *Fabr. Sp. Ins.* 466, 3. *Ent. Syst.* iv. 392, 5. *Syst. Antl.* 176, 7. *Gmel. Ed. Syst. Nat.* v. 2893, 1. *Latr. Hist. Nat. Crust.* xiv. 347. *Gen. Crust.* iv. 336. *Fall. Conops.* 7, 1. *Meig. Dipt.* iv. 127, 6, 9. *Lam. Anim. sans Verteb.* iii. 398, 3. *Macq. Hist. Nat. Dipt.* ii. 25, 7. *Asilus, &c., Geoff. Ins.* vi. 473, 14. *Conops petiolata*, *Don. Brit. Ins.* xiii. 39, pl. 451.

a. England.

b. France.

c. South of France. Presented by F. Walker, Esq.

*CONOPS vittata*, *Fabr. Ent. Syst.* iv. 392, 4. *Syst. Antl.* 176, 7. *Schell. Gen. Mouch.* pl. 19, f. 1. *Latr. Gen. Crust.* iv. 336. *Meig. Klass. Zweif.* i. 278, 7, pl. 14, f. 4. *Dipt.* iv. 129, 12. *Macq. Hist. Nat. Dipt.* ii. 27, 13.

a. England.

*CONOPS pusilla*, *Meig. Dipt.* iv. 131, 14. *Macq. Hist. Nat. Dipt.* ii. 28, 17.

a. ———?

*CONOPS annulipes*, Megerle, Meig. Dipt. iv. 135, 20.

a. France. Presented by F. Walker, Esq.

b. France.

c. ——— ?

*CONOPS excisa*, Wied. Auss. Zweif. ii. 234, 1.

a. ——— ? Presented by the Entomological Club.

b. ——— ?

*CONOPS sagittaria*, Say, Journ. Acad. Philad. iii. 23, 2. *C. nigricornis*, Wied. Auss. Zweif. ii. 236, 4.

a. Nova Scotia. From Lieut. Redman's collection.

*CONOPS æthiops*, n. s. *Nigra, fronte fulvo, abdominis fasciis cinereo-pubescentibus ornato, segmentorum marginibus posticis ferrugineis, antennis nigris, articulo 3<sup>o</sup> piceo, pedibus fulvis, femoribus tibiis apice tarsisque posticis piceis, alis fuscis basi albido vittatis apice cinereo bimaculatis, marginibus posticis limpidis.*

Body black; head tawny in front: eyes red: mouth black: feelers black; second joint pubescent, nearly thrice the length of the first joint; third joint pitchy, spindle-shaped, about half the length of the second joint; fourth and following joints very short: abdomen very slender and slightly tapering for near half the length from the base, elliptical, broad and very convex from thence to the tip; hind borders of the segments ferruginous, adorned with bands of gray down: legs tawny; hips black, covered with white silky down; thighs pitchy; shanks slightly pitchy towards the tips; tips of the feet and nearly the whole of the hind feet pitchy; claws black; foot-cushions tawny: wings dark brown on the whole length and on more than half the breadth from the fore border, with the exception of a whitish streak at the base and of two gray spots near the tip; hind borders colourless; the brown hue forms an angle, which extends beyond the lower cross-vein nearly to the hind border; wing-ribs pitchy; veins black; poisers tawny, pitchy at the base. Length of the body 5—5½ lines; of the wings 8—9 lines.

a. North America. Presented by the Entomological Club.

*CONOPS cruda*, n. s. *Picea, capite flavo, abdominis fascia una ferruginea nonnullisque cano-pubescentibus, antennis piceis articulo 1<sup>o</sup> subtus fulvo, pedibus ferrugineis femoribus piceis, alis limpidis ad costam fuscis fulvoque vittatis.*

Body pitchy, slightly covered with hoary down: head yellow, pitchy behind and on the crown: eyes dark red: mouth pitchy: feelers pitchy; first joint tawny beneath; second joint pubescent,

full twice the length of the first; third joint tapering from near the base to the tip, a little shorter than the second; fourth and fifth joints very short; sixth joint tapering from the base to the tip, about twice the length of the fourth and of the fifth joints: abdomen slender and linear for about one-third of its length from the first segment, which is broader, spindle-shaped thence to the tip, adorned with a ferruginous band at the tip of its stalk, and with a band of hoary down on the hind border of each segment: legs ferruginous; hips, thighs, and tips of the feet pitchy: claws tawny, with black tips; foot-cushions pale yellow: wings colourless, brown, with a tawny streak along the fore borders; wing-ribs and veins pitchy, poisers gray. Length of the body 6 lines; of the wings 9 lines.

*Conops flavifrons*, n. s. *Nigra, fronte flavo, antennis nigris articulo 1<sup>o</sup> apice ferrugineo, pedibus nigris, femoribus rufo fasciatis, tibiis tenebrisque piceis, femoribus posticis basi fulvis, alis nigro-fuscis margine postico subfuscis.*

Body black: front of the head yellow: eyes black, bordered with red; facets on the fore part of the crown larger than those elsewhere: mouth black, with a ferruginous band: feelers black; first joint ferruginous at the tip; second joint pubescent, more than twice the length of the first; third and following joints short, and forming a club, which is pitchy, ferruginous at the base, and not half the length of the second joint: chest clothed with very short black hairs, very slightly covered with gray bloom: abdomen clothed like the chest and more than twice its length, linear for full one-third of its length, spindle-shaped from thence to the tip: legs black; hips and trochanters pitchy, covered with white silky down; an indistinct dark red band on each thigh; hind thighs tawny at the base; shanks and feet pitchy: wings very dark brown or almost black along the fore border on the whole length and for half the breadth, somewhat paler at the tips; hind borders slightly clouded with brown, which is darkest along the sides of the veins; wing-ribs and veins black; poisers tawny, with black tips. Length of the body 9 lines; of the wings 14 lines.

a. Para. Presented by J. P. George Smith, Esq.

*Conops inhabilis*, n. s. *Nigra, fronte fulvo, humeris fulvo maculatis, abdominis segmentorum marginibus posticis canis, antennis ferrugineis, articulo 1<sup>o</sup> subtus fulvo, pedibus fulvis, femoribus supra piceis, alis limpidis ad costam fuscis.*

Body black: head with a ferruginous mark on the crown, bright tawny in front: eyes pitchy, dark red on the sides of the

crown: mouth pitchy: feelers ferruginous; first joint tawny beneath; second joint much more than twice the length of the first; third joint conical, broad at the base, a little longer than the first; fourth and following joints very short: chest and breast partly covered with pale yellow down; a tawny spot on each shoulder: abdomen linear, but not very slender for about one-third of the length from the first segment, which is broader, spindle-shaped thence to the tip; hind borders of the segments hoary; a slight ferruginous mark on each side of the tip of the second segment; hind borders of the segments hoary: legs tawny: hips pitchy; thighs somewhat pitchy on the upper side; tips of the claws black: wings colourless, dark brown especially on the sides of the veins along the fore borders for nearly half the breadth; wing-ribs tawny; veins black, pitchy towards the base; poisers tawny, pitchy at the base. Length of the body  $4\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. ——— ?

CONOPS maura, n. s. *Nigra, capite fulvo, thoracis humeris fulvo maculatis, scutello ferrugineo, abdomine fulvo quadrifasciato, antennis piceis, articulo 2<sup>o</sup> basi ferrugineo, pedibus piceis, femoribus basi ferrugineis, tibiis fulvis apice piceis, tarsis anterioribus fulvis, alis fulvo-fuscis, margine postico limpidis.*

Body black: head bright tawny, ferruginous on the crown, in front of which there is a black band and a black stripe, the latter reaches the base of the feelers: eyes pitchy, red above and along the inner border: mouth pitchy: feelers pitchy; second joint pubescent, more than twice the length of the first joint, ferruginous at the base; third joint shorter than the first, widened near the base, tapering thence to the tip: a tawny spot and a smaller spot of yellowish white down on each shoulder; scutcheon ferruginous: abdomen linear, and rather slender for near one-third of its length from the base, spindle-shaped thence to the tip, adorned with four dull tawny bands of down: legs pitchy; thighs ferruginous at the base: shanks tawny, with pitchy tips; four front feet tawny; claws black: wings tawny brown, especially along the borders of the veins for the whole length, and for more than half the breadth from the fore border, elsewhere colourless; the brown hue forms an angle, which extends over the lower cross-vein; wing-ribs ferruginous; veins pitchy; poisers tawny, pitchy at the base. Length of the body 6 lines; of the wings 10 lines.

a. ——— ?

*CONOPS excerpta*, n. s. *Nigra, fronte fulvo, thorace maculis abdomineque fasciis albo-pubescentibus ornatis, antennis nigris, pedibus piceis, tibiis basi fulvis, alis fuscis margine postico vinnosis.*

Body black: head and chest partly covered with white silky down: head rugulose: front tawny, red on each side of the crown: mouth pitchy: feelers black; second joint pubescent, much longer than the first; third joint a little longer than the first; fourth and following joints very short: chest adorned on each side of the front with a patch of white down: abdomen slightly sessile, linear for more than one-fourth of its length from the base, spindle-shaped thence to the tip, adorned with three or four bands of white down, about twice the length of the chest: legs pitchy, clothed with very short black hairs: shanks covered with white silky down, tawny at the base: foot-cushions yellow: wings brown along the fore borders, especially by the borders of the veins for the whole length and for more than half the breadth, elsewhere gray: wing-ribs and veins pitchy; palpi pale yellow, pitchy at the base. Length of the body 6 lines; of the wings 11 lines.

a. ———?

*CONOPS Bulhimus*, n. s., fem. ? *Atra, capite luteo flavoque quadrivittato, thorace luteo trimaculato, abdominis fasciis duabus apiceque luteis, antennis nigris, pedibus luteis, femoribus basi nigris, alis limpidis ad costam fuscis.*

Body deep black, velvety, thickly clothed with short black hairs: head adorned with two orange stripes above, and with two yellow stripes in front, and with a patch of golden hairs on each side of the front: mouth black: eyes dark red: feelers black, pubescent; first and second joints slightly club-shaped; second joint more than twice the length of the first; third joint broader than the first and the second at the base, tapering thence to the tip, hardly more than half the length of the second; fourth joint very short; fifth joint twice the length of the fourth; sixth joint still longer, tapering from the base to the tip: chest adorned with three large orange spots, one on each shoulder, and one behind the scutcheon: abdomen sessile, very slightly increasing in breadth from the base to the tip, rather less than twice the length of the chest, adorned with two broad orange bands, one near the base, the other near the tip, which is also orange: legs orange; fore thighs black at the base; four hinder thighs more slightly marked with black, which sometimes disappears on the hinder pair; foot-cushions pale yellow: tips of claws black: wings brown on half the breadth

from the fore border; wing-ribs and poisers pitchy; veins black. Length of the body 5—5½ lines; of the wings 9—10 lines.

a. New Holland. From Mr. Lambert's collection.

*CONOPS aptata*, n. s. *Atra, capite fulvo bivittato, luteo fulvoque quadrimaculato, thoracis margine flavo-cano pubescente, lateribus flavo-univittatis, abdomine luteo bifasciato vittisque duobus flavo-canis ornato, antennis nigris, pedibus nigris, alis cinereis, ad costam fuscis.*

Structure like that of *C. Bulbinus*: body black, velvety, thickly clothed with short black hairs: a bright orange spot on each side of the crown of the head blends with a broad tawny stripe on each side of the mouth, and there is also a tawny spot on each side beneath eyes dark red: mouth and feelers black: an indistinct line of yellowish hoary down extends round the disk of the chest, which has also an oblique stripe of the same on each side: abdomen adorned with two orange bands, the one near the base becomes yellow on each side, the other near the tip is broader; there is an oblique yellowish hoary stripe on each side between them: legs black; thighs and shanks covered with yellowish hoary down; foot-cushions tawny: wings gray, brown along the fore borders; wing-ribs and veins black; poisers yellow, pitchy at the base. Length of the body 4½—5½ lines; of the wings 8—10 lines.

a. West Australia. From Mr. Clifton's collection.

*CONOPS æquata*, n. s. *Atra, capite flavo bivittato, thorace flavo quadrimaculato, abdomine flavo bifasciato vittisque duabus lateralibus ornato, antennis nigris, pedibus piceis, tibiis flavis, alis limpidis, ad costam fuscis cinereoque vittatis.*

Structure like that of *C. Bulbinus*: body black, velvety, thickly clothed with short black hairs: head adorned along each side of the mouth with a yellow stripe, between which and the eye there is a stripe of hoary down: eyes red: mouth and feelers black: chest adorned with four large yellow spots, one on each shoulder, and one on each side of the scutcheon: abdomen adorned with two yellow bands, the one near the base longer than the other which is near the tip and does not embrace the sides; there is a short oblique yellow stripe on each side between them: legs pitchy; shanks yellow, pitchy towards the tips; claws black; foot-cushions tawny: wings colourless, dark brown along half the breadth from the fore border, which has a narrow gray stripe along half its length from the base; wing-ribs and veins black; poisers yellow. Length of the body 4 lines; of the wings 7 lines.

a. West Australia. From Mr. Clifton's collection.

*CONOPS inglorior*, n. s. *Atra, capite flavo bivittato, abdomine luteo bifasciato, antennis nigris, pedibus rufis, femoribus nigris, alis limpidis ad costam fuscis.*

Structure like that of the preceding species: body black, velvety, thickly clothed with short black hairs: a yellow stripe diverges from the base of the feelers along each side of the mouth: eyes dark red: mouth and feelers black: two broad orange bands on the abdomen, one near the base, the other near the tip: legs red; thighs black, with red tips; feet pitchy towards the tips; foot-cushions yellow; tips of claws black: wings brown on half the breadth from the fore border; wing-ribs pitchy: veins black; poisers yellow, pitchy at the base. Length of the body 5 lines; of the wings 9 lines.

a. New Holland. From the Rev. J. Wenham's collection.

*ZODION, Fabricius.*

*ZODION cinereum*, Meig. *Dipt.* iv. 138, 1, pl. 37, f. 6, 7. *Desv. Essai. Myod.* 251, 1. *Macq. Hist. Nat. Dipt.* ii. 39, 1, pl. 13, f. 16. *Myopa cinerea*, Fabr. *Ent. Syst.* iv. 399, 9. *Syst. Antl.* 181, 12. *Fall. Conops.* 12, 7. *M. tibialis*, Fabr. *Syst. Antl.* 182, 16. *Zodion conopsoides*, Latr. *Gen. Crust.* iv. 337, pl. 15, f. 8. *Lam. Anim. sans Verteb.* iii. 396, 1.

a. England.

b. France.

*ZODION notatum*, Meig. *Dipt.* iv. 139, 2. *Desv. Essai. Myod.* 251, 2. *Macq. Hist. Nat. Dipt.* ii. 40, 2. *M. irrorata*, Fabr. *Syst. Antl.* 180, 7. *M. tessellata*, Fabr. *Syst. Antl.* 181, 11. *M. notata*, Meig. *Klass. Zweif.* 288.

a. France.

*ZODION Occidentis*, n. s., mas. *Fusco-cinereum, capite ferrugineo, abdominis segmentorum marginibus posticis pallidioribus, antennis ferrugineis, pedibus piceis, femoribus basi genubusque fulvis, alis subcinereis basi albidis.*

Body brownish gray, thinly clothed with short tawny hairs: head ferruginous, pitchy on the crown and behind, yellow about the mouth, thinly clothed with short hairs: eyes pitchy: sucker black: feelers ferruginous; first joint slender; second joint increasing in breadth from the base to the tip, much longer than the first; third joint linear, rounded at the tip, a little shorter than the second; bristle much shorter than the third joint: hind borders of the abdominal segments paler: legs pitchy, clothed with short black hairs; thighs towards the base, knees, foot-cushions and claws tawny; tips

of the claws black ; wings slightly gray, whitish at the base ; wing-ribs tawny ; veins pitchy, tawny at the base ; poisers yellow. Length of the body  $1\frac{3}{4}$  lines ; of the wings 3 lines.

*a.* Ohio. Presented by the Entomological Club.

### MYOPA, Latreille.

Group I. *Meig. Dipt. iv. 141, A., pl. 37, f. 16.*

**MYOPA picta**, *Panz. Faun. Germ. 54, 22. Meig. Dipt. iv. 141, 1. Desv. Essai. Myod. 242, 1. Macq. Hist. Nat. Dipt. ii. 31, 1.*

*a.* England.

*b.* France.

**MYOPA buccata**, *Fabr. Sp. Ins. ii. 469, 5. Ent. Syst. iv. 398, 5. Syst. Antl. 179, 5. Fall. Conops. 10, 1. Meig. Dipt. iv. 142, 2. Desv. Essai. Myod. 242, 2. Macq. Hist. Nat. Dipt. ii. 31, 2. Zett. Ins. Lapp. 619, 1. Conops buccata, Linn. Syst. Nat. ii. 1006, 11. Faun. Succ. 1905.*

*a.* England.

*b.* France.

**MYOPA testacea**, *Fabr. Ent. Syst. iv. 398, 4. Syst. Antl. 179, 4. Latr. Gen. Crust. iv. 337. Fall. Conops. ii. 3. Meig. Dipt. iv. 142, 3. Desv. Essai. Myod. 243, 3. Macq. Hist. Nat. Dipt. ii. 32, 3. Zett. Ins. Lapp. 619, 2. Conops testaceus, Linn. Syst. Nat. ii. 1006. C. buccata, Gmel. Ed. Syst. Nat. v. 2895. Myopa pictipennis, Desv. Essai. Myod. 243, 6.*

*a.* England.

*b.* France.

**MYOPA dorsalis**, *Fabr. Ent. Syst. iv. 397, 6. Syst. Antl. 178, 1. Fall. Conops. 10, 2. Latr. Gen. Crust. iv. 337. Schell. Gen. Mouch. pl. 20, f. 1, 2. Meig. Klass. Zweif. i. 290, a. Desv. Essai. Myod. 245, 11. Macq. Hist. Nat. Dipt. ii. 32, 5. M. testacea, Fabr. Sp. Ins. ii. 468, 2. M. ferruginea, Panz. Faun. Germ. 22, 24. M. grandis, Meig. Klass. Zweif. i. 284, 1. M. dembripennis? Desv. Essai. Myod. 243, 4. Conops testacea, Gmel. Ed. Syst. Nat. v. 2894, 11.*

*a.* France.

**MYOPA pellucida**, *Desv. Essai. Myod. 244, 7.*

*a.* France.



**MYOPA ferruginea**, *Fabr. Sp. Ins.* ii. 468, 1. *Ent. Syst.* iv. 397, 2. *Syst. Antl.* 178, 2. *Fall. Conops.* 12, 5. *Latr. Gen. Crust.* iv. 337. *Cons. Gén.* 444. *Macq. Hist. Nat. Dipt.* ii. 342, 6, pl. 13, f. 13. *Zett. Ins. Lapp.* 620, 3. *Conops ferruginea*, *Linn. Faun. Succ.* 1907. *Gmel. Ed. Syst. Nat.* v. 2894, 8. *Asilus*, &c., *Geoff. Ins.* ii. 473, 14.

a. France.

**MYOPA fasciata**, *Meig. Klass. Zweif.* i. 286, 4. *Dipt.* iv. 144, 6. *Desv. Essai. Myod.* 244, 8. *Macq. Hist. Nat. Dipt.* ii. 33, 7. *M. ephippium*, *Fabr. Syst. Antl.* 180, 8.

a. France.

**MYOPA atra**, *Fabr. Sp. Ins.* ii. 469, 3. *Ent. Syst.* iv. 397, 3. *Syst. Antl.* 179, 3. *Full. Conops.* 12, 6. *Latr. Gen. Crust.* iv. 337. *Panz. Faun. Germ.* 12, 24. *Schell. Gen. Mouch.* pl. 20, f. 3. *Meig. Klass. Zweif.* i. 289, 12. *Dipt.* iv. 146, 9. *Desv. Essai. Myod.* 247, 18. *Macq. Hist. Nat. Dipt.* ii. 35, 15. *M. annulata*, *Fabr. Ent. Syst.* iv. 399, 10. *Syst. Antl.* 181, 13. *M. femorata*, *Fabr. Syst. Antl.* 181, 14. *M. cinerascens*, *Meig. Klass. Zweif.* i. 287, 6. *M. maculata*, *Meig. Klass. Zweif.* i. 287, 7. *M. micans*, *Meig. Klass. Zweif.* i. 288, 8.

a. England.

b. France.

**MYOPA bicolor**, *Megerle, Meig. Dipt.* iv. 147. *Desv. Essai. Myod.* 247, 16. *Macq. Hist. Nat. Dipt.* i. 34, 13.

a. France.

**MYOPA pallipes**, *Megerle, Meig. Dipt.* iv. 149, 15. *Desv. Essai. Myod.* 248, 19. *Macq. Hist. Nat. Dipt.* ii. 35, 14. *M. atra*, var.?

a. France.

**MYOPA fulvifrons**. *Zodion fulvifrons*, *Say, Journ. Acad. Philad.* iii. 83, 1. *Wied. Auss. Zweif.* ii. 241, 1. *Myopa rubifrons*, *Desv. Essai. Myod.* 247, 17.

a. Georgia. From Mr. Abbot's collection.

b. North America. Presented by the Entomological Club.

**MYOPA americana**. *Zodion americana?* *Wied. Auss. Zweif.* ii. 242, 3.

a. North America. Presented by the Entomological Club.

*MYOPA vicaria*, n. s. *Ferruginea, capite fulvo, thoracis disco piceo, abdomine maculis cano-pubescentibus ornato, antennis pedibusque ferrugineis, tarsis fulvis, alis fulvo cinereoque variis, venis transversis fusco nebulosis.*

Body ferruginous, clothed with black hairs: head tawny, clothed with black hairs, very large, pale yellow, and covered with whitish hairs about the mouth: eyes pitchy: mouth black: feelers ferruginous; first and second joints clothed with short black hairs; bristle pitchy towards the tip: disk of the chest pitchy: abdomen longer than the chest, adorned with patches of hoary down: legs ferruginous, slightly covered with white bloom, clothed with black hairs; feet tawny; claws black, tawny at the base; foot-cushions yellow: wings tawny along the borders of the veins; disks of the areolets slightly gray; wing-ribs and poisers pale tawny; veins tawny; cross-veins clouded with brown. Length of the body 3 lines; of the wings  $5\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

*MYOPA apicalis*, n. s. *Ferruginea, capite flavo, abdomine piceo, albo pubescente, lateribus ventreeque ferrugineis, antennis ferrugineis, pedibus fulvis, femoribus tibiisque piceo fasciatis, alis subfulvis.*

Head yellow, pitchy and partly ferruginous above: eyes pitchy: mouth dark ferruginous: feelers ferruginous; second joint and bristle pale: chest and breast dark ferruginous: abdomen pitchy, dark ferruginous on each side and beneath, covered with hoary down on each side, especially towards the tip, where the down forms a short and slight streak on the back: legs tawny; hips ferruginous; a broad pitchy band across each thigh and shank; tips of claws black: wings slightly tawny, especially along the borders of the veins; wing-ribs and veins tawny; poisers yellow. Length of the body 4 lines; of the wings 8 lines.

a. North America. Presented by the Entomological Club.

*MYOPA bistris*, n. s., mas. *Fulvo-cinerea, capite flavo-albo, abdomine fulvo, basi ferrugineo, segmento 3<sup>o</sup> vittis duabus fuscis, apice nigro, antennis ferrugineis, pedibus fulvis, femoribus nigris, tibiis plerumque piceis, alis cinereis.*

Head yellowish white, pitchy about the eyelets, bright tawny from thence to the feelers: eyes pitchy: mouth black: feelers ferruginous: chest tawny-gray, beset with black bristles; breast somewhat paler: abdomen pale tawny, thinly clothed with short tawny hairs, longer than the chest; first segment ferruginous; two brown

stripes on the back of the third segment; tip black, clothed with hoary hairs: legs tawny; hips and thighs black; shanks mostly pitchy; tips of claws black: wings gray; wing-ribs tawny; veins black; scales white; poisers pale tawny. Length of the body 3 lines; of the wings  $4\frac{1}{2}$  lines.

a. North America. Presented by the Entomological Club.

Group II. *Meig. pl. 37, f. 17.* Dalmannia, *Desvoidy.*

MYOPA punctata, *Fabr. Ent. Syst.* iv. 398, 6. *Syst. Antl.* 181, 9. *Latr. Gen. Crust.* iv. 338. *Meig. Dipt.* iv. 151, 18. *M. virens*, *Fall. Conops.* 13, 8. *Meig. Klass. Zweif.* i. 289, 11. *Dalmannia punctata*, *Desv. Essai. Myod.* 249, 3. *Stachyua punctata*, *Macq. Hist. Nat. Dipt.* ii. 37, 4.

a. Ukraine. Presented by Dr. Dowler.

STYLOGASTER, *Macquart.*

STYLOGASTER stylatus, *Macq. Hist. Nat. Dipt.* ii. 39, 1. *Conops stylatus*, *Fabr. Syst. Antl.* 177, 11. *Myopa biannulata*, *Say, Journ. Acad. Philad.* iii. 81, 3. *M. stylata*, *Wied. Auss. Zweif.* ii. 243, 2.

a. ———?

Fam. XIX. STOMOXYDÆ.

SIPHONA, *Meigen.*

SIPHONA ———? *S. geniculata*, *Meig. Dipt.* iv. 155, 1. *Desv. Essai. Myod.* 91, 1. *Macq. Hist. Nat. Dipt.* ii. 93, 1, *pl. 14, f. 6.* *Musca urbanus*? *Harr. Ex.* 153, *pl. 45, f. 85.*

a. England.

b. France.

SIPHONA geniculata, *Zett. Ins. Lapp.* 620, 1. *S. tachinaria*, *Meig. Dipt.* iv. 156, 3. *Macq. Hist. Nat. Dipt.* ii. 94, 3. *Musca geniculata*, *Deg. Ins.* vi. 20, 15, *pl. 2, f. 19—23.* *Stomoxys minuta*, *Fabr. Syst. Antl.* 282, 17, *fem.* *S. cristata*, *Fabr. Syst. Antl.* 281, 9, *mas.* *S. geniculata*, *Fall. Hæmat.* 5, 2. *Bucentes cinereus*, *Latr. Gen. Crust.* iv. 339. *Cons. Gén.* 444. *Lam. Anim. sans Vertéb.* iii. 394, 1.

a. England.

b. France.

## STOMOXYS, Geoffroy.

Group I. Meig. Dipt. iv. 160, B. Prosenas, St. Farg. et Serv.

STOMOXYS siberita, Fabr. Sp. Ins. ii. 467, 3. Ent. Syst. iv. 394, 4. Syst. Antl. 280, 4. Gmel. Ed. Syst. Nat. v. 2891, 2. Schell. Gen. Mouch. pl. 17, f. 2. Latr. Gen. Crust. iv. 339. Fall. Hæmat. 5, 1. Meig. Dipt. iv. 160, 2, pl. 38, f. 1—4. Curt. Brit. Ent. 665. S. irritans, Panz. Faun. Germ. 5, 24. Lam. Anim. sans Verteb. iii. 395, 2. S. longipes, Gmel. Ed. Syst. Nat. v. 2892, mas. S. grisea, Fabr. Syst. Antl. 279, fem. Prosenas siberita, St. Farg. et Serv. Encycl. Meth. x. 500. Desv. Essai. Myod. 317, 1. Macq. Hist. Nat. Dipt. ii. 208, 1, pl. 15, f. 14.

a. England.

b. France.

Group II. Meig. Dipt. iv. 160, C.

STOMOXYS calcitrans, Geoff. Ins. ii. 539, 1, pl. 18, f. 2. Schell. Gen. Mouch. pl. 17, f. 1. Schrank, Faun. Boic. iii. 2563. Fabr. Sp. Ins. ii. 467, 4. Ent. Syst. iv. 394, 5. Syst. Antl. 280, 5. Gmel. Ed. Syst. Nat. v. 2891, 4. Fall. Hæmat. 6, 3. Latr. Gen. Crust. iv. 338. Cons. Gén. 444. Meig. Dipt. iv. 160, 3. Macq. Hist. Nat. Dipt. ii. 242, 1, pl. 16, f. 6. Desv. Myod. 386, 1. Zett. Ins. Lapp. 621, 1. Guer. Icon. Regn. Anim. Ins. pl. 101, f. 8. Conops calcitrans, Linn. Faun. Suec. 1900. Schrank, Ins. Austr. 990. Stomoxys tessellata, Fabr. Ent. Syst. iv. 395, 6. Syst. Antl. 281, 7. Musca pungens, Deg. Ins. vi. 39, 11, pl. 4, f. 12—18.

a. England.

Group III. Hæmatobia, Desvoidy.

STOMOXYS stimulans, Meig. Dipt. iv. 161, 4, pl. 38, f. 8—10. Zett. Ins. Lapp. 621, 2. S. irritans, Fabr. Sp. Ins. ii. 468, 4. Ent. Syst. iv. 395, 7. Syst. Antl. 281, 10. Gmel. Ed. Syst. Nat. v. 2892, 5. Latr. Gen. Crust. iv. 338. Fall. Hæmat. 7, 4. Hæmatobia stimulans, Macq. Hist. Nat. Dipt. ii. 243, 1, pl. 16, f. 7.

a. England.

STOMOXYS irritans, Meig. Dipt. iv. 162, 5. Zett. Ins. Lapp. 621, 3. Conops irritans, Linn. Faun. Suec. 1901. Stomoxys pungens, Fabr. Ent. Syst. iv. 395, 9. Syst. Antl. 282, 12. Gmel. Ed.

*Syst. Nat.* v. 2892, 6. *Fall. Hamat.* 7, 5. *Hæmatobia geniculata*, *Desv. Myod.* 388, 2. *H. irritans*, *Macq. Hist. Nat. Dipt.* ii. 243, 3.

a. England.

#### Group IV. *Glossina*, *Wiedemann*.

Bristles of the feelers thick, beautifully adorned with feathered hairs springing from the base of the third joint, which is long and slightly curved, especially at the tip: an additional vein in the disk of the wing.

*Stomoxys fuscus*, n. s. *Fuscus*, *capite fulvo*, *thoracis lateribus margineque postico fulvidis*, *pectore cano*, *abdomine fulvo apice fusco*, *antennis pedibusque fulvis*, *alis fusco-fulvis*.

Body light brown, clothed with short black hairs: head and chest beset with some black bristles: head tawny: eyes pitchy; fore part flat, its facets much larger than those elsewhere: mouth pitchy, thickly clothed with short black hairs: feelers tawny: sides and hind part of the chest somewhat tawny: breast hoary: abdomen oval, tawny, brown towards the tip, paler beneath: legs tawny, clothed with short black hairs; tips of claws black; foot-cushions pale tawny: wings brownish tawny; wing-ribs tawny; veins brown; poisers yellow. Length of the body  $5\frac{1}{2}$  lines; of the wings 12 lines.

a. ——— ?

*Stomoxys longipalpis*? *Glossina longipalpis*? *Wied. Auss. Zweif.* ii. 254, *pl.* 9, *f.* 10. *Macq. Dipt. Exot.* ii. 3me *Ptie.* 113, 1, *pl.* 14, *f.* 1. *Nemorhina palpalis*? *Desv. Essai. Myod. Cinereus*, *capite flavo-fusco*, *thorace fusco vittato*, *abdomine cinereo-fusco*, *antennis piceis*, *pedibus fulvis*, *femoribus subcinereis*, *alis fuscis*.

Body clothed with short black hairs: head yellowish brown, clothed on the crown with short black hairs: eyes black; facets on the fore part larger than those elsewhere: mouth pitchy, thickly clothed with short black hairs; sucker tawny: feelers pitchy: chest dark gray, indistinctly striped with brown; breast paler: abdomen brown, with a slight gray tinge, sometimes with an indistinct paler stripe on the back: legs tawny, clothed with short black hairs; thighs slightly gray; claws black; foot-cushions pale tawny: wings brown; wing-ribs tawny; veins black; poisers yellow. Length of the body  $3-3\frac{1}{2}$  lines; of the wings 8—9 lines.

a. Congo.

## Fam. XXII. CESTRACIDÆ.

## CUTEREBRA, Clark.

CUTEREBRA americana. *Musca americana*, *Fabr. Syst. Ent.* 774, 6. *Ent. Syst.* iv. 315, 14. *Syst. Antl.* 288, 21. *Cuterebra Cauterium*, *Clark, Essay, Bots.* 70, pl. 2, f. 3. *Trypoderma americana*, *Wied. Auss. Zweif.* ii. 258, 3.

a. North America. Presented by the Entomological Club.

d. Nova Scotia. From Lieut. Redman's collection.

CUTEREBRA horripilum, *B. Clark, Essay, Bots.* 70, pl. 2, f. 27.

*Trypoderma horripilum*, *Wied. Auss. Zweif.* ii. 257, 2.

a. Nova Scotia. From Lieut. Redman's collection.

b. ———?

CUTEREBRA terrisona, n. s. *Nigra, subtus pilis nigris vestita, capite maculis albo-pubescentibus ornato, thorace utrinque fascia obliqua flavo-pubescente, antennis nigris, seta alba basi nigra, alis nigris.*

Body black, shining, clothed beneath with short black hairs: head slightly furrowed on the crown, adorned on each side with long triangular spots of whitish down, radiating from the inner side of the eyes: eyes pitchy: feelers black; bristle white, and feathered with white hairs, black towards the base: an oblique band of pale yellow hairs on each side of the chest, whose hind part is dark ferruginous: underside of the abdomen partly covered with yellowish white bloom: legs black, thickly clothed with short black hairs: wings, wing-ribs, veins, and poisers black. Length of the body 11 lines; of the wings 20 lines.

a. Guatimala. From M. Sallé's collection.

## CESTRUS, Linneus.

CESTRUS ovis, *Linn. Syst. Nat.* ii. 970. *Faun. Suec.* 1734. *Gmel. Ed. Syst. Nat.* v. 2811, 5. *Fabr. Sp. Ins.* ii. 399, 6. *Ent. Syst.* iv. 232, 8. *Syst. Antl.* 230, 10. *Reaum. Ins.* iv. *Mem.* 12, pl. 35, f. 10—25. *Geoff. Ins.* ii. 456, 2, pl. 17, f. 1. *Herbst, Gem. Nat.* viii. 97, pl. 64, f. 3. *Fisch. Dit. Cont.* iii. pl. 2, f. 1—5. *Schrank, Faun. Boic.* iii. 2289. *Ins. Austr.* 843. *Berk. Syn.* i. 160. *Clark, Linn. Trans.* iii. 313, pl. 23, f. 14—17. *Essay, pl.* 2, f. 16, 20. *Stew, El.* ii. 249. *Turt.* iii. 582. *Don. Brit. Ins.* xvi. 19, 550. *Shaw, Gen. Zool.* vi.

364, *pl.* 102, *f. inf.* Leach, *Eprob. Ins.* 1. *Bingl. Zool.* iii. 309. *Latr. Gen. Crust.* iv. 341. *Fall. Hæmat.* 9, 1. *Meig. Dipt.* iv. 166, 1. *Cephalemyia ovis*, Clark, *Æstr.* *pl.* 11. *Macq. Hist. Nat. Dipt.* ii. 51, 1, *pl.* 13, *f.* 21. *Guer. Icon. Regn. Anim. Ins. pl.* 101, *f.* 4. *Æstrus pectus*, Kellner, *Ent. Zeit. Stettin*, viii. 366.

a. England.

b. France.

c. Georgia. From Mr. Abbot's collection.

d. Madras. Presented by Walter Elliot, Esq.

**ÆSTRUS BOVIS**, *Fabr. Ent. Syst.* iv. 231, 3. *Syst. Antl.* 228, 3. *Modeer, Act. Holm.* 1786. *Svensk. Zool.* 4. *Reaum. Ins.* iv. *Mem.* 12, *pl.* 37, 38. *Geoff. Ins.* ii. 456, 1. *Fisch. Dissert. Cont.* iii. *pl.* 2, *f.* 6—12, *pl.* 3, 4. *Deg. Ins.* vi. 119, 2, *pl.* 15, *f.* 22. *Schrank, Faun. Boic.* iii. 2288. *Latr. Gen. Crust.* iv. 342. *Stew, El.* ii. 21, 8. *Turt.* iii. 581. *Clarke, Linn. Trans.* iii. 291, *pl.* 25, *f.* 1—6. *Essay*, *pl.* 2, *f.* 1—10. *Shaw, Gen. Zool.* vi. 358, *pl.* 102, *f. sup.* *Bingl. Zool.* iii. 304. *Leach, Eprobosc. Ins. Suppl.* 2. *Meig. Dipt.* iv. 167, 2. *Zett. Ins. Lapp.* 623, 3. *O. hæmorrhoidalis*, *Linn. Faun. Suec.* 1734. *Hypoderma Bovis*, Clark, *Æstr.* *pl.* 2, *f.* 1—10. *Macq. Hist. Nat. Dipt.* ii. 48, 1, *pl.* 18. *Dipt. Nord.* 197, 1, *pl.* 6, *f.* 3. *Guer. Icon. Regn. Anim. Ins. pl.* 101, *f.* 3.

a. England.

b. France.

**ÆSTRUS TARANDI**, *Linn. Faun. Suec.* 1731. *Modeer. Act. Holm.* 1786. *Gmel. Ed. Syst. Nat.* v. 2810, 2. *Fabr. Sp. Ins.* ii. 398, 3. *Ent. Syst.* iv. 231, 5. *Syst. Antl.* 229, 5. *Fall. Hæmat.* 10, 3. *Meig. Dipt.* iv. 169, 3, *pl.* 38, *f.* 15. *Zett. St. Lapp.* 1821, 2, 39, 40. *Ins. Lapp.* 622, 2. *Læstad, Journ.* 1831, 447. *Edemagena Tarandi*, Clark, *Æstr.* *pl.* 2, *f.* 13—14. *Macq. Hist. Nat. Dipt.* ii. 49, 1, *pl.* 13, *f.* 19. *Guer. Icon. Regn. Anim. Ins. pl.* 101, *f.* 3.

a. Lapland.

b. Lapland. Presented by the Entomological Club.

c. Lapland. Presented by F. Walker, Esq.

d. Lapland. Presented by F. Walker, Esq.

**ÆSTRUS TROMPE**, *Modeer. Act. Holm.* 1786. *Fabr. Ent. Syst.* iv. 231, 6. *Syst. Antl.* 229, 6. *Fall. Hæmat.* 10, 2. *Latr. Gen. Crust.* iv. 342. *Coq. Icon.* *pl.* 23, *f.* 1. *Panz. Faun. Germ.* 107, 20. *Fischer, Dissert. Cont.* ii. 78, 3. *Fall. Hæmat.* 10, 2. *Læstad. Journ.* 1831, 447. *Meig. Dipt.* iv. 17, *D.* 5, *pl.* 38, *f.*

13. *Zett. St. Lapp.* 1821, 2, 39. *Ins. Lapp.* 622, 1. *Kellner, Ent. Zeit. Stettin*, 1847, viii. 366. *Cephenemyia* Trompe, *Macq. Hist. Nat. Dipt.* ii. 50, 1, pl. 13, f. 20.

a. France.

b. ——— ? From Mr. Children's collection.

*ŒSTRUS* phobifer, *B. Clark, Essay, Bots.* pl. 2, f. 30. *Wied. Auss. Zweif.* ii. 255, 1.

a. ——— ?

*ŒSTRUS* Clarkii, *Shuckard, Linn. Trans.* xix. 93.

a. Cape. Presented by W. E. Shuckard, Esq.

*ŒSTRUS* supplens, n. s., mas et fem. *Piceus, capite ad oculos fulvo, pilis flavis vestito, vertice pilis fulvis vestito, thorace abdominisque apice pilis fulvis hirtis, thorace postico abdominisque basi pilis flavo-albis hirtis, abdomine pilis nigris fasciato, antennis ferrugineis, pedibus piceis, tibiis ferrugineis, tarsis fulvis, alis subfuscis.*

Body pitchy: head tawny about the eyes, thickly clothed with pale yellow hairs, and on the crown with dark tawny hairs: eyes pitchy: feelers ferruginous; bristle pitchy, pale tawny at the base: chest clothed with tawny hairs; its hind part and the breast clothed with yellowish white hairs: abdomen adorned with three broad hairy bands; the first band at the base composed of yellowish white hairs, the second of black hairs, the third of bright tawny hairs: legs pitchy, clothed with black hairs; hips and thighs towards the base clothed with yellowish white hairs; knees and feet tawny; feet towards the tips and shanks ferruginous; claws ferruginous, with black tips: wings slightly tinged with brown; wing-ribs and veins pitchy; poisers tawny. Length of the body  $5\frac{1}{2}$ —6 lines; of the wings 10—11 lines.

a. Nova Scotia. From Lieut. Redman's collection.

b. ——— ?

#### GASTRUS, Meigen.

*GASTRUS* Equi, *Meig. Dipt.* iv. 175, 1, pl. 38, f. 21, 22. *Gasterophilus* Equi, *Leach, Eprobosc. Ins.* 2. *Zett. Ins. Lapp.* 623, 1. *Œstrus* Bovis, *Linn. Syst. Nat.* ii. 969. *Faun. Suec.* 1730. *Fabr. Sp. Ins.* ii. 398, 2. *Herbst, Germ. Nat.* viii. 94, pl. 64, f. 1. *Geoff. Ins.* ii. 456, 3. *Schrank, Ins. Austr.* 842. *Berk. Syn.* i. 160. *Sam. Ent. Comp.* 70, pl. 9, f. 1. *Dalhb. Scand. Ins. Lund.* 1837. *O. vituli, Fabr. Ent. Syst.* iv. 231, 4.



*Schell. Gen. Mouch. pl. 21. O. hæmorrhoidalis, Gmel. Ed. Syst. Nat. v. 2810, 4. Schrank, Faun. Boic. iii. 2286. O. intestinalis, Deg. Ins. vi. 117, 1, pl. 15, f. 13—19. O. Equi, Fabr. Syst. Anil. 228, 4. Svensk. Zool. 4. Fischer, Dissert. Cont. ii. pl. 2—4. Clark, Œstr. pl. 1, f. 13, 14. Latr. Gen. Crust. iv. 341. Cons. Gén. 444. Clark, Linn. Trans. iii. 298, pl. 23, f. 7—9. Essay, pl. 1, f. 1—16. Stew, El. ii. 248. Turt. iii. 581. Shaw, Gen. Zool. vi. 359, pl. 102, f. med. Bingl. Zool. iii. 306. Wood, Linn. Gen. Ins. ii. 81, 63. Stark, El. Nat. Hist. ii. 388. Fall. Hæmat. 13, 8. Macq. Dipt. Nord. 93, 1, pl. 6, f. 1. Hist. Nat. Dipt. ii. 52, 1, pl. 13, f. 23. Guer. Icon Regn. Anim. Ins. pl. 101, f. 6.*

- a. England.
- b. France.
- c. Switzerland.
- d. Hungary.
- e. North America. Presented by the Entomological Club.
- f. Illinois.
- g. Nova Scotia. From Lieut. Redman's collection.

*GASTRUS Pecorum, Meig. Dipt. iv. 176, 2, pl. 38, f. 23. Zett. Ins. Lapp. 623, 2. Œstrus Pecorum, Fabr. Ent. Syst. iv. 230, 2. Syst. Anil. 228, 2. Fall. Hæmat. 12, 5. Macq. Hist. Nat. Dipt. ii. 53, 2.*

- a. Jamaica.

*GASTRUS flavipes, Encycl. Meth. viii. 12. Macq. Hist. Nat. Dipt. ii. 54, 6.*

- a. ———?

*GASTRUS salutaris, Meig. Dipt. iv. 176, 3. Œstrus salutaris, Clark, Œstr. pl. 1, f. 35, 36. Macq. Hist. Nat. Dipt. ii. 53, 3.*

- a. England.

*GASTRUS nasalis, Meig. Dipt. iv. 178, 5. Œstrus nasalis, Linn. Faun. Suec. 1732. Gmel. Ed. Syst. Nat. v. 2810, 3. Fabr. Sp. Ins. ii. 399, 4. Deg. Ins. vi. pl. 15, f. 20, 21. Panz. Faun. Germ. 107, 21. Schrank, Faun. Boic. iii. 2287. Macq. Hist. Nat. Dipt. ii. 54, 5. O. Equi, Fabr. Ent. Syst. iv. 232, 7. O. veterinus, Fabr. Syst. Anil. 230, 8. Fall. Hæmat. 12, 6. Clark, Œstr. pl. 1, f. 26, 27. Gastrus Clarkii, Meig. Dipt. iv. 180, 8. Gasterophilus Clarkii, Leach, Arrang. Œstr. Ins. 2.*

- a. England.

**GASTRUS** Selysi Cartier, *Guerin, Mag. Zool.*

*a.* Liege. Presented by M. Selys de Longchamps.

**GASTRUS** hæmorrhoidalis, *Meig. Dipt.* iv. 177, 4. *Æstrus* hæmorrhoidalis, *Linn. Syst. Nat.* ii. 970, 4. *Faun. Suec.* 1733, *Fabr. Syst. Antl.* 229, 7. *Fall. Hæmat.* 13, 7. *Clark, Æstr.* pl. 1, f. 21, 22. *Macq. Hist. Nat. Dipt.* ii. 54, 5. *O. Equi*, var., *Fabr. Ent. Syst.* iv. 232, 7. *Sp. Ins.* ii. 399, 5. *O. Bovis*, *Gmel. Ed. Syst. Nat.* v. 2809, 1.

*a.* England.

**GASTRUS** subjacens, n. s., mas. et fem. *Ferrugineus, pilis aureis vestitus, abdomine pilis fuscis fasciato, basi albido piloso, antennis fulvis, pedibus ferrugineis, tarsis fulvis, alis albidis.*

Body ferruginous: head and chest thickly clothed with golden hairs; hairs on the crown of the head darker and thinner: eyes pitchy: feelers tawny: breast and base of the abdomen clothed with yellowish white hairs: a band of dark brown hairs across the middle of the abdomen, which from thence to the tip is clothed with golden hairs: legs ferruginous, clothed with tawny hairs; feet tawny; foot-cushions and claws pale yellow; tips of the claws black: wings whitish; wing-ribs pitchy; veins pale yellow; poisers yellow. Length of the body  $5\frac{1}{2}$ —6 lines; of the wings 10 lines.

*a.* North America. Presented by the Entomological Club.

*b.* Nova Scotia. From Lieut. Redman's collection.

#### ADDENDUM.

**CONOPS** Bulbimus, *Walker, p.* 674 = *Conops aurosa*, *Newman, Entom.* 222.



# LIST OF DIPTERA.

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## PART IV.

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### Sub-order I.—PROBOSCIDEÆ.

#### Family XXIII. MUSCIDÆ.

##### PHASIA, Latreille.

##### Group I. *Meig. Dipt. iv. pl. 39, f. 15.*

PHASIA crassipennis, *Latr. Gen. Crust. iv. 345. Coq. Icon. pl. 23, f. 11. Meig. Dipt. iv. 186, 1. Desv. Essai. Myod. 290, 1. Macq. Hist. Nat. Dipt. ii. 198, 1. Duf. Ann. Soc. Ent. Fr. 2me série vi. 427. P. analis, Meig. Dipt. iv. 187, 2. Syrphus crassipennis, Fabr. Ent. Syst. iv. 284, 23. Thereva crassipennis, Fabr. Ent. Syst. Suppl. 560, 3. Syst. Antl. 218, 3. Panz. Faun. Germ. 74, 15. Musca crassipennis, Lam. Anim. sans Vertéb. iii. 363, 11. T. analis, Fabr. Ent. Syst. Suppl. 561, 5. Syst. Antl. 219, 7. Panz. Faun. Germ. 74, 17. Musca dimidiata, Panz. Faun. Germ. 60, 17.*

a. England.

b. France.

c. Italy. Presented by Signor Passerini.

PHASIA helva, *Wied. Zool. Mag. ii. 45. Auss. Zweif. ii. 262, 1. Desv. Essai. Myod. 291, 3.*

a. Cape.

Group II. *Meig. Dipt. iv. pl. 39, f. 13. Alophora, Desvoidy.*

*PHASIA* hemiptera, *Latr. Gen. Crust. iv. 345. Meig. Dipt. iv. 191, 8. Zett. Dipt. Scand. iii. 1246, 2. Syrphus subcoleoptratus, Fabr. Sp. Ins. ii. 423, 12. S. hemipterus, Fabr. Ent. Syst. iv. 284, 22. S. affinis, Fabr. Ent. Syst. iv. 284, 24. Thereva hemiptera, Fabr. Ent. Syst. Suppl. 560, 2. Syst. Antl. 218, 2. T. affinis, Ent. Syst. Suppl. 560, 4. Syst. Antl. 218, 4. Panz. Faun. Germ. 74, 16. Musca subcoleoptrata, Gmel. Ed. Syst. Nat. v. 2869, 335. Lam. Anim. sans Verteb. iii. 363, 10. Thereva subcoleoptrata, Panz. Faun. Germ. 74, 13, 14. Schell. Gen. Mouch. pl. 2, f. 2 Schæff. Icon. pl. 71, f. 6. Musca tristis, Herbst. Gem. Nat. viii. 110, pl. 64, 5. Alophora hemiptera, Desv. Essai. Myod. 295, 2. Macq. Dipt. Nord. 7.284, 1. Hist. Nat. Dipt. ii. 202, 2.*

a. England.

b. France.

Group III. *Hyalomyia, Desvoidy.*

*PHASIA* violacea, *Meig. Dipt. iv. 193, 10. Hyalomyia violacea, Macq. Hist. Nat. Dipt. ii. 203, 2.*

a. France.

*PHASIA* obesa, *Latr. Gen. Crust. iv. 345. Meig. Dipt. iv. 194, 13. Thereva obesa, Fabr. Ent. Syst. Suppl. 561, 6. Syst. Antl. 219, 6. Hyalomyia obesa, Desv. Essai. Myod. 299, 3. Macq. Hist. Nat. Dipt. ii. 203, 4.*

a. France.

*PHASIA* muscaria, *Meig. Dipt. iv. 196, 18. Zett. Ins. Lapp. 626, 1. Dipt. Scand. iii. 1248, 3. Thereva muscaria, Fall. Rhizom. 3, 2. Alophora muscaria, Meig. Dipt. vii. 384, 17. Phasia cinerea, Meig. Dipt. iv. 198, 22. Thereva cinerea, Fabr. Syst. Antl. 221, 13. Hyalomyia cinerea, Macq. Hist. Nat. Dipt. ii. 204, 8, pl. 15, f. 13. Alophora cinerea, Meig. Dipt. vii. 284, 19.*

a. England.

b. France.

*PHASIA* pusilla, *Hoffmansegg, Meig. Dipt. iv. 198, 23. Zett. Dipt. Scand. iii. 1251, 7. Hyalomyia pusilla, Desv. Essai. Myod. 300, 8. Macq. Hist. Nat. Dipt. ii. 204, 9. Alophora pusilla, Meig. Dipt. vii. 284, 20.*

a. England.

b. France.

*PHASIA semicineræa*, *Meig. Dipt. iv.* 199, 24. *Hyalomyia semicineræa*, *Desv. Essai. Myod.* 301, 11. *Macq. Hist. Nat. Dipt. ii.* 204, 11.

a. England.

Group IV. *Meig. Dipt. iv. pl.* 39, f. 16. *Elomyia*, *Desvoidy*.

*PHASIA ornata*, *Meig. Dipt. iv.* 202, 31.

a. ———? From Mr. Children's collection.

*PHASIA argentifrons*, n. s. *Nigra, capite argenteo, antennis pedibusque nigris, alis nigro-fuscis margine postico subcinereis.*

Body black: head covered with white silvery pile: eyes dark red: peristoma tawny: feelers black: sides and underside of the abdomen fringed with pale tawny hairs: legs black, clothed with short black hairs; claws and foot-cushions dull pale tawny; tips of claws black: wings dark brown, slightly gray along the hind borders; wing-ribs, veins and poisers black. Length of the body 2 lines; of the wings 4 lines.

a. Interior of South Africa. Presented by the Earl of Derby.

### GYMNOSOMA, *Meigen*.

Group I. *Meig. Dipt. iv.* 204, A.

*GYMNOSOMA rotundata*, *Fall. Rhizom.* 9, 1. *Meig. Dipt. iv.* 204, 1, pl. 39, f. 21. vii. 207. *Desv. Essai. Myod.* 236, 1. *Macq. Hist. Nat. Dipt. ii.* 189, 1, pl. 15, f. 5. *Zett. Ins. Lapp.* 628, 1. *Dipt. Scand.* iii. 1226, 1. *Musca rotundata*, *Linn. Syst. Nat.* ii. 991. *Faun. Suec.* 1838. *Gmel. Ed. Syst. Nat.* v. 2846, 76. *Fabr. Sp. Ins.* ii. 442, 33. *Ent. Syst.* iv. 325, 57. *Deg. Ins.* vi. 15, 8, pl. 1, f. 11. *Geoff. Ins.* ii. 509, 32. *Schæff. Icon.* pl. 54, f. 8, pl. 143, f. 3. *Panz. Faun. Germ.* 20, 19. *Rossi. Faun. Etrusc.* 466, 1502. *Schrank, Faun. Boic.* iii. 2441. *Don. Brit. Ins.* xii. 83, pl. 424, f. 1. *Stew, El.* ii. 259. *Turt.* iii. 605. *Lam. Anim. sans Vertéb.* iii. 362, 7. *Tachina rotundata*, *Fabr. Syst. Antl.* 311, 12. *Ocyptera rotundata*, *Latr. Gen. Crust.* iv. 344. *Cons. Gén.* 444. *M. cerinus*, *Harr. Ex.* 36, pl. 9, f. 6.

a. England.

b. France.

c. South of France Presented by F. Walker, Esq.

**GYMNOSOMA** par, n. s., mas. et fem. *Fulva, abdominis mari. disco thoraceque nigris, fem. abdomine maculis nigris ornato, antennis fulvis, articulo 2º nigro, pedibus nigris, alis subcinereis, basi*

Body black: head tawny, adorned with a gold lustre in the male, with a silver lustre in the female, clothed behind and beneath with hoary hairs: eyes red: feelers tawny; second joint black, except at the base beneath; bristle tawny, black towards the tip: chest clothed with short black hairs; sides and breast hoary: abdomen tawny, thickly punctured, clothed with short black hairs, with a black disk in the male, along the back of the female with a row of large irregular black spots, which successively decrease in size from the base to the tip: legs black, clothed with black hairs; foot-cushions pitchy: wings slightly gray, yellow at the base; wing-ribs and veins tawny; veins pitchy towards the tips; scales yellowish white; poisers bright tawny. Length of the body  $2\frac{1}{4}$ — $2\frac{3}{4}$  lines; of the wings  $4$ — $4\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

b. ———?

**GYMNOSOMA** occidua, n. s. *Nigra, pilis cinereis vestita, capite albo, abdomine subtus et segmentorum 1º et 2º marginibus posticis fulvis, sequentium marginibus posticis utrinque vittaque dorsali canis, antennis pedibusque nigris, alis subcinereis.*

Body black: head white, clothed behind with a few black hairs; a black stripe extends from the eyelets to the base of the feelers, and there is a tawny tinge on each side of it: eyes red: sucker black, clothed with black hairs: feelers deep black; third joint longer than the second, flat above, convex beneath, rounded at the tip; bristle longer than the third joint: chest clothed with short gray hairs: breast partly covered with hoary bloom: abdomen shining, thickly punctured, clothed with short black hairs: underside and hind borders of the first and second segments tawny; hind borders of the following segments hoary on each side of the back, which is also adorned with a hoary stripe: legs black, clothed with short black hairs: wings slightly gray; wing-ribs tawny; veins pitchy, tawny at the base; scales white, with yellow borders; poisers tawny. Length of the body  $2\frac{1}{4}$  lines; of the wings 4 lines.

a. Nova Scotia. From Lieut. Redman's collection.

Group II. *Meig. Dipt. iv. 206, B. Cistogaster, Latreille.*

*GYMNOSOMA aurantiaca?* *Meig. Dipt. iv. 207, 5. Cistogaster aurantiaca?* *Macq. Hist. Nat. Dipt. ii. 190, 3.*

*a. ———?*

*GYMNOSOMA globosa, Meig. Dipt. iv. 206, 3, pl. 39, f. 22. Syrphus globosus, Fabr. Sp. Ins. ii. 432, 56. Ent. Syst. iv. 304, 99. Tachina globosa, Fabr. Syst. Anth. 311, 13. Musca globosa, Gmel. Ed. Syst. Nat. v. 2875, 360. Gymnosoma dispar, Fall. Rhizom. 9, 2. Pallasia globosa, Desv. Essai. Myod. 239, 1. Cistogaster globosa, Macq. Hist. Nat. Dipt. ii. 190, 1. Meig. Dipt. vii. 207, 1, pl. 69, f. 25. Zett. Dipt. Scand. iii. 1228, 1. C. ovata, Macq. Hist. Nat. Dipt. ii. 190, 2.*

*a. ———?*

OCYPTERA, *Latreille.*

*OCYPTERA bicolor, Oliv. Encyl. 3. Macq. Hist. Nat. Dipt. ii. 185, 1. O. coccinea, Meig. Dipt. iv. 211, 1. Loew, Ent. Zeit. Stett. v. 231, 1. O. Pentatomæ, Desv. Essai. Myod. 229, 1.*

*a. ———?* From Mr. Children's collection.

*b. ———?*

*OCYPTERA brassicaria, Fabr. Syst. Anth. iv. 211. Latr. Gen. Crust. iv. 343. Cons. Gén. Fall. Rhizom. 5, 1. Meig. Dipt. iv. 211, 3, vii. 215, 2. Curt. Brit. Ent. 629, 1. Desv. Essai. Myod. 230, 4. Macq. Hist. Nat. Dipt. ii. 185, 2. Loew, Ent. Zeit. Stett. v. 234, 4, vi. 180. 1. Zett. Dipt. Scand. iii. 1220, 1. Musca brassicaria, Fabr. Sp. Ins. ii. 443, 36. Ent. Syst. iv. 327, 63. Gmel. Ed. Syst. Nat. v. 2847, 209. Schell. Gen. Mouch, pl. 3, f. 1, 2. Schæff. Icon. pl. 118, f. 4. Lam. Anim. sans Vertéb. iii. 362, 6. M. cylindrica, Deg. Ins. vi. 16, 9, pl. 1, f. 12, 14. Syrphus segnis, Panz. Faun. Germ. 22.*

*a. England.*

*b. France.*

*c. Albania. From Mr. Walker's collection.*

*OCYPTERA intermedia, Meig. Dipt. iv. 212, 3. Desv. Essai. Myod. 231, 5. Loew, Ent. Zeit. Stett. v. 236, 5.*

*a. France.*



*OCYPTERA bimacula*, n. s. *Nigra, capite flavo, abdomine rufo, basi apice maculisque duabus nigris, antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head yellow, clothed beneath with hoary hairs; a black stripe between the eyelets and the feelers; sides of the face fringed with bristles at the base; epistoma hardly prominent: eyes pitchy, not hairy: palpi black: feelers black, as long as the face; third joint club-shaped, much longer than the second; bristle much longer than the third joint, stout near the base, very slender from thence to the tip: chest adorned in front with three hoary stripes: scutcheon and abdomen armed with a few black spines: abdomen red, longer than the chest; base and tip black; two black spots on the back, one of them connected with the black of the base: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs pitchy; veins black, pitchy at the base; tip cross-vein forming an almost right angle with the fourth longitudinal vein, joining the third longitudinal vein at some distance before the tip of the latter; lower cross-vein nearly straight; scales white, with yellow borders. Length of the body  $4\frac{1}{2}$  lines of the wings 6 lines.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

*OCYPTERA Dotadas*, n. s. *Nigra, capite albo micante, abdomine rufo, basi apiceque nigro, antennis pedibusque nigris, alis subcinereis, basi costa nervorumque marginibus fuscis.*

Body black, clothed with black hairs and bristles: head adorned in front with white reflections, reddish on each side of the peristoma: eyes red: mouth black, ferruginous at the base: feelers black; third joint full twice the length of the second, slightly convex above and beneath, shorter and less linear than that of the European species: abdomen red, linear, black at the base and at the tip: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray, brown at the base, on the fore borders and along the veins; wing-ribs, veins, and poisers black; scales white. Length of the body  $3\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. Jamaica. From Mr. Gosse's collection.

*OCYPTERA Epytus*, n. s. *Nigra, capite albo-micante, abdomine rufo, basi apice vittaque interrupta nigris, segmentorum suturis albo micantibus, antennis pedibusque nigris, alis flavo-fuscis, apicibus marginibusque posticis pallidioribus.*

Body black, clothed with black hairs and bristles: head silvery white, clothed beneath with hoary hairs; peristoma yellow, with

ferruginous sides; sides of the face yellow: eyes red: mouth black, ferruginous at the base: feelers black; third joint like that of *O. Dotadas*: abdomen red, black at the base, whence an interrupted black stripe proceeds to the two last segments, which are black; sutures of the segments, especially on each side, adorned with white lustre: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings yellowish brown, paler at the tips and along the hind borders; wing-ribs, veins, and poisers black; scales white. Length of the body  $4\frac{1}{2}$  lines; of the wings 7 lines.

a. Georgia. From Mr. Abbot's collection.

OCYPTERA Dosiades, n. s. *Nigra, capite albo micante, abdomine rufo, basi apice vittaque integra nigris, antennis pedibusque nigris, alis subcinereis, basi nervorumque marginibus subfuscis.*

Body black, clothed with black hairs and bristles: head tinged in front with silvery-white, clothed beneath with hoary hairs: eyes red: mouth black: feelers black, like those of *O. Dotadas*: abdomen red, black at the base, whence proceeds a narrow uninterrupted black stripe, which widens from the base to the tip of the third segment; the following segments black: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray, tinged with pale brown at the base and along the borders of the veins; wing-ribs and veins black; scales white; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

OCYPTERA picta, n. s. *Aurea, thorace nigro univittato, abdomine ferrugineo, cano micante, lateribus ventreque nigris, pedibus ferrugineis, tarsis nigris, alis fuscis, basi costaque flavis, apicibus marginibusque posticis subcinereis.*

Body clothed with black hairs and bristles: head and chest gold colour: feelers black (?): a broad black stripe with two slender gold stripes along the middle of the chest: abdomen ferruginous, black on each side and beneath, adorned with hoary reflections, which are most conspicuous on the sutures of the segments: legs ferruginous, clothed with black hairs and bristles; feet black; foot-cushions tawny: wings brown, grayish at the tips and along the hind borders, bright yellow at the base and for two-thirds of the length of the fore border; wing-ribs and veins ferruginous; veins tawny on the yellow part of the wing; scales pale yellow. Length of the body 5 lines; of the wings 9 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**OCYPTERA** Euchenor, n. s. *Nigra, cinerea, capite albo micante, abdomine nigro, lateribus cano micantibus, segmentis 2<sup>o</sup> et 3<sup>o</sup> utrinque rufis, antennis pedibusque nigris, illorum articulo 3<sup>o</sup> setaque basi ferrugineis, alis subcinereis, basi costa nervorumque marginibus fuscis.*

Body black, clothed with black hairs and bristles: head adorned with silvery-white lustre, clothed beneath with some hoary hairs: eyes dark red: mouth black: feelers black; third joint and the bristle ferruginous at the base: chest covered with gray, breast with hoary bloom: abdomen black; sides of the second and third segments red; fore borders of third and fourth segments adorned with hoary lustre on each side: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray, brown at the base, on the fore borders and along the sides of the veins; wing-ribs, veins, and poisers black; scales white. Length of the body 5 lines; of the wings 8 lines.

- a. Massachusetts. From Prof. Sheppard's collection.
- b. Newfoundland.

#### TRICHOPODA, Latreille.

**TRICHOPODA** lanipes, Wied. *Auss. Zweif.* ii. 270, 4. *Desv. Essai.* *Myod.* 284, 5. *Thereva* lanipes, *Fabr. Syst. Antl.* 220, 10.

- a. Georgia. From Mr. Abbot's collection.
- b. ———?

**TRICHOPODA** pilipes, Wied. *Auss. Zweif.* ii. 272, 7. *Perty. Del.* *Art.* 186, *pl.* 37, *f.* 5. *Thereva* pilipes, *Fabr. Syst. Antl.* 220, 12.

- a. ———?

**TRICHOPODA** pennipes, Wied. *Auss. Zweif.* ii. 274, 9. *Desv. Essai.* *Myod.* 283, 1. *Musca* pennipes, *Fabr. Ent. Syst.* iv. 348. 149. *Dictya* pennipes, *Fabr. Syst. Antl.* 327, 5.

- a. North America. Presented by the Entomological Club.
- b. Florida. Presented by E. Doubleday, Esq.
- c. Georgia. From Mr. Abbot's collection.
- d. ———? From Mr. Children's collection.
- e. ———?

**TRICHOPODA histrio**, n. s. *Nigra, capite aureo, piceo vittato, thorace fascia una vittisque quatuor fulvis ornato, scutello fulvo, abdomine postico fasciis duabus latis interruptis flavis ornato, antennis nigris, pedibus fulvis, tibiis posticis basi tarsisque posticis nigris, tibiis posticis nigro fimbriatis, alis limpidis, ad costam fuscis fulvo vittatis.*

Body black: head bright golden-colour, clothed with yellow hairs on each side; a pitchy stripe on the crown widens in front to the cavity where the feelers repose, this is tawny and covered with silvery glance: eyes dark red, with a slight brassy tinge: mouth pitchy: palpi tawny: feelers ferruginous: chest beset with a few black bristles; fore part adorned with four tawny stripes, which join a tawny band across the middle; outer pair of stripes much broader and more distinct than the inner pair; scutcheon tawny: hind part of the abdomen adorned with two broad interrupted yellow bands: legs tawny, clothed with short black hairs; feet pitchy towards the tips; claws and foot-cushions tawny; tips of claws black: hind feet and tips of hind shanks black; hind shanks adorned with tufts of black hairs, extending along nearly the whole length, but most thick at the tips: wings colourless, brown with tawny streaks along the fore borders for half the breadth; wing-ribs and veins ferruginous; scales white, with yellow borders; pointers tawny. Length of the body 4—5 lines; of the wings 8—10 lines.

a. ——— ?

**TRICHOPODA lateralis**, n. s. *Nigra, capite fulvo, piceo vittato, thorace fascia una vittisque quatuor aureis ornato, abdominis lateribus basi fulvis, antennis pedibusque nigris, tibiis posticis nigro fimbriatis basi fulvis, alis nigro-fuscis, margine postico subcinereo.*

Body black: head tawny, with a broad pitchy stripe on the crown; front adorned with yellowish white silky lustre: eyes pitchy: feelers black: chest beset with some black bristles, adorned with a very indistinct golden band across the middle, and with four golden stripes, one on each side, and two shorter and more indistinct on the back: breast covered with white lustre: abdomen linear, clothed with black hairs, tawny on each side towards the base: legs black, clothed with black hairs; claws tawny, with black tips; foot-cushions yellow; hind shanks tawny at the base, adorned with tufts of black hairs which extend from near the base to the tip: wings very dark brown along the fore border for more than half the breadth: hind border slightly gray; wing-ribs and veins black;

poisers tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 12 lines.

a. Brazil.

*TRICHOPODA umbra*, n. s. *Atra, fronte cano pubescente, vittisque duabus aureis ornato, thoracis vittis quatuor fasciæque una aureis, abdomine fusco pubescente, antennis nigris, articulo 2º basi fulvo, pedibus nigris, alis nigris marginibus posticis limpidis.*

Body deep velvet-like black: head clothed with a few black hairs; front covered with hoary down, adorned on each side with a stripe of pale golden down; mouth pitchy, clothed with short tawny hairs; its cavity tawny: eyes pitchy: feelers black; third joint tawny at the base: chest beset with some black bristles, adorned with four golden stripes, which are joined together behind by a golden band; the pair of stripes on the back are in advance of the side pair: abdomen clothed with short black hairs, and excepting a middle stripe, covered with brown bloom, and on the last segment with pale tawny bloom: legs black, clothed with short black hairs; trochanters ferruginous; foot-cushions and claws pale yellow; tips of claws black; hind shanks fringed with tufts of black hairs: wings black, colourless along the hind borders; wing-ribs and veins black; scales yellowish brown; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Venezuela. From Mr. Dyson's collection.

### *TRIXA, Meigen.*

*TRIXA lateralis*, n. s. *Cinerea, thoracis vittis quatuor nigris, lateribus scutelloque ferrugineis, abdomine cano-cyaneo, antennis ferrugineis, articulo 3º nigro, pedibus ferrugineis, femoribus basi nigris, alis limpidis.*

Head black, clothed with black hairs; peristoma and face ferruginous; sides of the face fringed with bristles along half the length from the base: sucker black, clothed at the tip with short tawny hairs; palpi ferruginous, clothed with black hairs: eyes pitchy: feelers ferruginous, half the length of the face; third joint black; bristle black, more than twice the length of the third paler joint: chest gray, clothed with short black hairs, adorned with four black stripes; sides and scutcheon ferruginous: abdomen bluish black, with hoary reflections, clothed with short black hairs: legs ferruginous, clothed with black hairs and bristles; thighs black towards the base; claws ferruginous, with black tips; foot-cushions pale tawny: wings colourless; wing-ribs and veins tawny; veins

pitchy towards the tips; tip cross-vein forming a somewhat obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with an almost imperceptible inward curve along its lower half, and with a more decided outward curve along its upper half; scales yellowish white, dingy. Length of the body  $8\frac{1}{2}$  lines; of the wings 17 lines.

a. ——— ?

*TRIXA scutellata*, Newman, *Ent. Mag.* i. 507.

a. England.

*TRIXA dorsalis*, Meig. *Dipt.* iv. 225, 5. Macq. *Hist. Nat. Dipt.* ii. 97, 5. *Ann. Soc. Ent. France*, 2me série, vi. 104, 7.

a. England.

*TRIXA variegata*, Meig. *Dipt.* iv. 225, 6. Macq. *Hist. Nat. Dipt.* ii. 98, 6. *Ann. Soc. Ent. France*, 2me série, vi. 104, 8.

a. England.

*TRIXA apicalis*, n. s. *Cana, capite fulvo, thorace nigro trivittato, abdomine piceo, segmentorum marginibus anticis canis, antennis ferrugineis apice piceis, pedibus nigris, alis subcinereis, basi nervique transversis postici marginibus subfuscis.*

Body pitchy, clothed with black hairs and bristles: head and chest covered with hoary bloom: head tawny; sides of the face fringed with bristles along nearly half the length from the base: eyes bright red: sucker pitchy, clothed with tawny hairs; palpi tawny, clothed with black hairs: feelers ferruginous; third joint pitchy at the tip, a little longer than the second; bristle downy, less than twice the length of the third joint: chest adorned with three very slender black stripes: abdomen elliptical, a little longer than the chest; a broad hoary band on the fore border of each segment: legs black, clothed with black hairs and bristles: foot-cushions tawny: wings slightly gray; wing-ribs and veins tawny; veins pitchy toward the tips; lower cross-vein and fore borders slightly clouded with brown; scales dingy white. Length of the body 7 lines; of the wings 12 lines.

a. ——— ?

#### *MILTOGRAMMA*, Meigen.

*MILTOGRAMMA punctata*, Meig. *Dipt.* iv. 228, 3. Desv. *Essai. Myod.* 93, 2. Macq. *Hist. Nat. Dipt.* ii. 153, 2. *Curt. Brit. Ent.* 529. Zett. *Dipt. Scand.* iii. 1204, 3. *Tachina oestracea*, Fall. *Musc.* 10, 17, var.

a. England.

**MILTOGRAMMA** Megerlei? *Meig. Dipt. iv. 233, 14. Cana, abdominis segmentorum marginibus posticis fulvis, antennis fulvis articulo 3<sup>o</sup> piceo, pedibus nigris, alis limpidis.*

Body hoary, clothed with black hairs and bristles: head tawny on the crown, yellow in front, gray beneath; epistoma not prominent; no bristles on the sides of the face: eyes red, not hairy; sucker black, clothed at the tip with tawny hairs; palpi tawny: feelers very short, tawny, not more than half the length of the face; third joint pitchy, very slightly convex above and beneath, rounded at the tip, full twice the length of the third joint; bristle very short, but longer than the third joint, its second joint about twice the length of the first; third joint stout, but tapering to the tip: abdomen obconical, not longer than the chest; hind borders of the segments tawny: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings colourless; wing-ribs tawny; veins pitchy, tawny at the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border above the tip of the wing; lower cross-vein straight for nearly half its length, slightly curved outward from thence to the tip; scales white, with buff borders. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

α. England.

### **TACHINA**, *Fabricius.*

Div. A. *Macromydæ*, *Desv. Essai. Myod. 32.*

#### Group I.

Third joint of the feelers nearly twice the length of the second, very convex above, flat beneath, rounded at the tip; second joint of the bristle more than twice the length of the first.

**TACHINA melanax**, n. s. *Atra, spinosissima, capite albo, antennis pedibusque nigris, tarsis albis, alis nigris.*

Body deep black, clothed with black hairs and bristles: abdomen armed with very thick close-set black spines, which especially characterize this species: head white, clothed beneath with white hairs, beset above with black bristles; crown black; peristoma pale yellow; epistoma very prominent; no bristles on the sides of the face; sucker black, pitchy and clothed with a few short whitish hairs towards the tip; palpi black, spindle-shaped, long, not much shorter than the sucker, clothed with short black hairs: eyes pitchy, not hairy: feelers black, covered with whitish bloom; third joint nearly twice the length of the second, flat beneath, rounded at the

tip, extremely convex near the base above, whence it rises abruptly, but declines more gradually to the tip; its height is equal to full two-thirds of its length; the orifice is very distinct, and is seated near the underside below the greatest height of the third joint; bristle downy, tapering gradually from the base to the tip, less than twice the length of the third joint, its second joint long, more than twice the length of its first: scutcheon armed with black spines, which, like those of the abdomen, are shining and polished: legs black, clothed with hoary hairs, and beset with black spines; feet ivory-white, clothed with short white hairs; a small pitchy band at the tip of each foot; foot-cushions and claws white; tips of the claws black: wings deep black, with some dark gray streaks towards the base; wing-ribs, veins, and scales black; tip cross-vein forming an acute angle with the fourth longitudinal vein, which hardly projects beyond it, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein almost straight till near the tip, where it slightly curves outward. Length of the body 8 lines; of the wings 20 lines.

a. Venezuela. From Mr. Dyson's collection.

### Group II. *Dejeania*, *Desv. Essai. Myod.* 33.

*TACHINA bombylans*, *Wied. Auss. Zweif.* ii. 286, 10. *Stomoxys bombylans*, *Fabr. Ent. Syst. Suppl. Syst. Antl.* 281, 6. *Coq. Ill. Icon. Ins.* 115, pl. 25, f. 16. *Dejeania capensis*, *Desv. Essai. Myod.* 34, 2. *D. bombylans*, *Macq. Dipt. Exot.* ii. 3, 34, 1, pl. 3, f. 2.

a. Cape. Presented by the Entomological Club.

b. South Africa. Presented by Dr. A. Smith.

### Group III.

Third joint of the feelers very much longer than the second; convex above, slightly convex beneath, rounded at the tip; second joint of the bristle much longer than the first.

*TACHINA alterna*, n. s. *Nigra, capite abdomineque flavis, abdominis apice nigro fasciis vittaque ferrugineis, antennis pedibusque nigris, alis fuscis.*

Body black, clothed with black hairs and bristles: head pale yellow, blackish on the crown, clothed beneath with pale yellow



hairs, beset above with a few black hairs and bristles; epistoma very prominent; no bristles on the sides of the face; sucker black, pitchy and clothed with short pale yellowish hairs at the tip; palpi short: feelers black, as long as the face; third joint very much longer than the second, convex above, slightly convex beneath, rounded at the tip, rising along the back till near the tip where is its deepest part; bristle pitchy, downy, gradually tapering from the base to the tip; second joint about twice the length of the first; third joint not near twice the length of the third feeler-joint: abdomen armed with black spines, especially towards the tip, yellow, and half transparent from the base to beyond the middle, adorned with a ferruginous stripe which extends to the tip: legs black, clothed with black hairs and bristles; claws and foot-cushions white; tips of claws black: wings and scales brown, wing-ribs and veins dark tawny, tip cross-vein forming a slightly acute angle with the fourth longitudinal vein which projects a little beyond it, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two curves, one long and near the base, the other shorter and very near the tip. Length of the body 5—6 lines; of the wings 11—14 lines.

a. Venezuela. From Mr. Dyson's collection.

#### Group IV.

Third joint of the feelers a little longer than the second; slightly convex above, flat beneath, rounded at the tip; second joint of the bristle full twice the length of the first.

*TACHINA melanopyga*, Wied. *Auss. Zweif.* ii. 272, 19.

a. ———?

#### Group V.

Third joint of the feelers as long as the second, convex above, slightly convex or flat beneath, rounded at the tip; second joint of the bristle more than twice the length of the first.

*TACHINA aurifera*, n. s. *Fusco-fulva*, capite flavo, scutello abdomineque ferrugineis, abdominis lateribus nigris, apice aureo maculato, antennis fulvis articulo 3<sup>o</sup> nigro, pedibus fulvis, tarsis flavis, alis cinereis.

Head pale yellow, clothed beneath with pale yellow hairs, beset above and in front with some black bristles; epistoma very promi-

nent; no bristles on the sides of the face; sucker black, pitchy and clothed with some short pale yellow hairs at the tip; palpi short: eyes pitchy: feelers tawny, as long as the face; third joint pitchy, black, as long as the second, convex above, slightly convex beneath, rounded at the tip; bristle downy, tapering from the base to the tip, about twice the length of the third feeler-joint, its second joint twice the length of its first: chest and breast brownish tawny, beset with black hairs and bristles; chest adorned with four interrupted slender black stripes; scutcheon ferruginous, covered with a slight tawny down, armed with stout black spines: abdomen dark ferruginous, thickly beset with black spines, black along the sides and at the tip, where there is a large bright golden spot: legs tawny, clothed with black hairs and bristles; feet bright yellow, clothed with pale yellow hairs and bristles: tips of claws black: wings gray; wing-ribs and veins tawny; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, which sends forth a little stump beyond it, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein nearly straight for half the length, curved outward from thence to the tip; scales dingy white. Length of the body 5 lines; of the wings 11 lines.

a. *Venezuela*. From Mr. Dyson's collection.

*TACHINA diversa*, n. s. *Cinerea, capite albo, abdomine rufo albo vario, antennis nigris, pedibus rufis femoribus basi tarsisque nigris, alis subnigris.*

Head white, gray on the crown, clothed beneath with white hairs, beset above and on the front with black bristles; epistoma very prominent; no bristles on the sides of the face; sucker black, clothed at the tip with short tawny hairs; palpi short: eyes dark red, slightly bronzed: feelers black, covered with gray bloom, as long as the face; third joint a little longer than the second, convex above, almost flat beneath, rounded at the tip; bristle downy, more than twice the length of the third feeler-joint; second joint twice the length of the first; third joint tapering to one-third of its length, slender from thence to the tip: chest and breast gray, clothed with black hairs and bristles; scutcheon and abdomen armed with black spines: abdomen deep red; third and fourth segments adorned with two triangular white spots that are joined together; tip of the abdomen, sides of the segments above, and hind borders of the segments whitish: legs deep red, beset with black hairs and spines; thighs towards the base and feet black; claws and foot-cushions yellowish-white; tips of the claws black: wings blackish, darkest at the base and along the little cross-vein in the

disk ; wing-ribs and some of the veins tawny, the other veins pitchy ; tip cross-vein forming a nearly right angle with the longitudinal vein, much curved inward near the base, almost straight from thence to the tip which joins the border at some distance above the tip of the wing ; lower cross-vein with two long and very slight curves, the lower inward, the upper indistinct and outward ; scales white. Length of the body  $5\frac{1}{2}$  lines ; of the wings 13 lines.

a. Venezuela. From Mr. Dyson's collection.

### Group VI.

Third joint of the feelers very much longer than the second, slightly convex above, flat beneath, rounded at the tip ; second joint of the bristle about twice the length of the first.

*TACHINA æquabilis*, n. s. *Fulva*, capite albido, thoracis vittis quatuor obscurioribus, antennis fulvis, articulo 3<sup>o</sup> nigro, pedibus fulvis, alis fuscis.

Head yellowish white, clothed beneath with white hairs, beset on the crown with black hairs, and in front with black bristles, adorned from the eyelets to the feelers with a brown stripe between two tawny-gray stripes ; epistoma very prominent ; no bristle on the sides of the face ; sucker black, clothed at the tip with short yellow hairs : eyes dark red : feelers tawny, as long as the face ; third joint black, tawny at the base, slightly convex above, flat beneath, rounded at the tip, rather less than twice the length of the second joint ; bristle black, downy, tapering from the base to the tip, much less than twice the length of the third feeler-joint ; its second joint about twice the length of its first : chest and breast dull tawny, beset with a few black hairs and bristles : chest adorned with four slender indistinct darker stripes : abdomen bright tawny, with paler reflections, armed with stout black spines, which are arranged in clusters along the back and on each side of the hind borders of the segments : legs tawny, clothed with black hairs and bristles ; tips of claws black ; foot-cushions yellow : wings dark brown ; wing-ribs and veins tawny ; tip cross-vein forming a right angle with the fourth longitudinal vein, very slightly curved inward near the base, straight from thence to the tip which joins the border at some distance above the tip of the wing ; lower cross-vein almost straight for half the length from the base, slightly and irregularly curved outward from thence to the tip ; scales dingy white. Length of the body 5 lines ; of the wings 11 lines.

a. Venezuela. From Mr. Dyson's collection.

## Group VII.

Third joint of the feelers very little longer than the second, flat above, deepening beneath from the base to the tip, which is obliquely truncated; second joint of the bristle twice the length of the first.

*TACHINA constans*, n. s. *Fusco-fulva, capite flavo, pectore cano, abdomine rufo maculis nigris ornato, antennis fulvis articulo 3<sup>o</sup> nigro, pedibus fulvis, tibiis anticis tarsisque flavis, alis fuscis.* *Jurinia rufiventris?* *Macq. Dipt. Exot. ii. 2, 41, 7, pl. 3, f. 9.*

Head pale yellow, clothed beneath with pale yellow hairs, beset above and in front with black bristles; epistoma very prominent, no bristles on the sides of the face; crown brown; sucker black, its tip pitchy and clothed with short whitish hairs: eyes pitchy: feelers tawny, as long as the face; third joint black, very little longer than the second joint, flat above, deepening beneath from the base to the tip, which is obliquely truncated; bristle downy, rather stout, tapering, not near twice the length of the third feeler-joint, its second joint twice the length of the first: chest brownish tawny, clothed with black hairs and bristles; breast hoary; scutcheon armed with black spines: abdomen deep red, with a row of black spots along the back, armed with stout black spines, which are mostly disposed in clusters on the back and along the sides of the hind borders of the segments, and are especially thick at the tip: legs tawny, beset with black hairs and bristles; feet and fore shanks yellow, the former clothed with pale yellow hairs and bristles; claws and foot-cushions pale yellow, tips of the claws black: wings and scales pale brown; wing-ribs and veins tawny; tip cross-vein forming an almost right angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight till near the tip, where it is slightly curved outward. Length of the body 6 lines; of the wings 14 lines.

*a.* Venezuela. From Mr. Dyson's collection.

## Group VIII.

Third joint of the feelers much longer than the second, slightly convex above, more convex beneath, rounded at the tip; second joint of the bristle about twice the length of the first.

**TACHINA** *transiens*, n. s. *Fusca, capite pectoreque fulvis, abdomine rufo-fusco, segmentorum suturis nigris, antennis nigris, pedibus fulvis, alis fuscis.*

Head brownish tawny, clothed beneath with pale tawny hairs, beset above and in front with black hairs and bristles; epistoma very prominent; no bristles on the sides of the face; sucker black, clothed at the tip with a few short pale tawny hairs: eyes pitchy: feelers black, as long as the face; third joint much longer than the second, slightly convex above, more convex beneath, rounded at the tip; bristle downy, rather stout, about twice the length of the third feeler-joint, tapering from the base to the tip; its second joint about twice the length of the first: chest dark brown, clothed with tawny hairs and black bristles; breast tawny; scutcheon armed with black spines: abdomen reddish tawny, much longer and broader than the chest, thickly clothed with reddish tawny hairs, armed with a few stout black spines, darker along the middle of the back; sutures of the segments black: legs tawny, clothed with short black hairs and bristles: claws and foot-cushions pale tawny; tips of the claws black: wings and scales dark brown; wing-ribs and veins tawny; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two hardly perceptible curves, the lower inward, the upper outward. Length of the body 5 lines; of the wings 12 lines.

*a.* Quito. Presented by W. Hewitson, Esq.

### Group IX.

Third joint of the feelers longer than the second, very convex above, flat beneath, rounded at the tip; second joint of the bristle hardly longer than the first.

**TACHINA** *trianguli*, n. s. *Fusco-fulva, capite flavo, thoracis lateribus pectore scutelloque fulvis, abdomine maculis trigonis nigris ornato, antennis piceis, pedibus fulvis, alis cinereis basi fulvis.*

Head pale yellow, clothed beneath with pale yellow hairs, beset above and in front with a few black bristles; epistoma very prominent; no bristles on the sides of the face; sucker and palpi black, clothed with short black hairs; palpi tawny at the base, nearly as long as the sucker: eyes pitchy slightly bronzed: feelers pitchy, as long as the face; third joint longer than the second, very convex above, flat beneath, rounded at the tip; bristle black, naked, rather

slender, tapering from the base to the tip, full twice the length of the third feeler-joint, its first and second joints tawny; second joint short, hardly longer than the first: chest brownish tawny, clothed with tawny hairs, beset with black bristles; sides, breast, and scutcheon tawny; scutcheon armed with black spines: abdomen bright tawny, adorned along the back with a row of black triangular spots, clothed with tawny hairs, armed with black spines, which occupy the hind borders of the segments, and are most numerous at the tip: legs tawny, clothed with black hairs and bristles; claws and foot-cushions yellow; tips of the claws black: wings gray, tawny at the base; scales yellowish white; wing-ribs and veins tawny; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, which sends forth a very short stump beyond it, much curved near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight for half the length, very slightly curved outward from thence to the tip. Length of the body 6 lines; of the wings 12 lines.

a. Venezuela. From Mr. Dyson's collection.

#### Group X.

Third joint of the feelers twice the length of the second, linear, truncated at the tip; first and second joints of the bristle very short.

TACHINA finitima, n. s. *Fusca, capite albido, thoracis vittis quatuor obscurioribus, lateribus pectore scutelloque fulvis, abdominis apice ferrugineo, antennis pedibusque fulvis, alis cinereis basi fulvis.*

Head yellowish white, dark tawny, with a hoary stripe between the eyelets and the feelers, clothed beneath with yellowish white hairs, beset above and in front with a few black bristles; epistoma prominent; no bristles on the sides of the face; sucker tawny, clothed with short pale yellow hairs; palpi yellow, long, beset with short black bristles: feelers tawny, as long as the face; third joint linear, truncated at the tip, twice the length of the second joint; bristle black, naked, more than twice the length of the third feeler-joint; first and second joints rather long, equal in length; third joint stout for about half its length, thence to the tip very slender: chest brown, clothed with tawny hairs, beset with black bristles, adorned with four darker, slender indistinct stripes; sides, scutcheon, and breast tawny: scutcheon armed with black spines: abdomen bright tawny, ferruginous towards the tip, broader and much longer

than the chest, adorned with a row of black spots, armed with black spines, which are chiefly arranged in groups and abound most at the tip: legs tawny, clothed with black hairs and bristles; claws and foot-cushions pale yellow; foot-cushions very small; tips of claws black: wings gray, tawny towards the base; wing-ribs and veins tawny; tip cross-vein forming an acute angle with the fourth longitudinal vein, which has a knob beyond it, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two very indistinct curves, the lower inward, the upper outward; scales pale gray. Length of the body 5—6 lines; of the wings 12—13 lines.

Var.  $\beta$ . Body rather darker; third joint of the feelers pitchy, its base tawny.

a. Nova Scotia. From Lieut. Redman's collection.

b. United States. Presented by the Entomological Club.

c. ———?

### Group XI.

Third joint of the feelers very much longer than the second, very convex above, slightly concave beneath, rounded at the tip; second joint of the bristle twice the length of the first.

*TACHINA signifera*, n. s. *Flavo-fusca, capite albido, scutello ferrugineo, abdomine nigro, apicem versus fulvo maculato, antennis fulvis, articulo 3<sup>o</sup> nigro, pedibus fulvis femoribus basi nigris, alis cinereis basi fulvis.*

Head yellowish white, gray with a tawny stripe between the eyes, beset above with a few black bristles, clothed beneath with white hairs; epistoma very prominent; no bristles on the sides of the face; sucker black, pitchy, and clothed with short tawny hairs at the tip; palpi tawny: eyes red, slightly bronzed: feelers tawny, as long as the face; third joint black, very much longer than the second, very convex above, slightly concave beneath, rounded at the tip; bristle black, rather stout, tapering from the base to the tip, not near twice the length of the third feeler-joint, its second joint long, twice the length of the first: chest yellowish brown, clothed with black hairs and bristles; scutcheon ferruginous: abdomen black, shining, beset with black hairs, bristles and spines, very dark red on each side; back near the tip adorned with a pale buff mark somewhat resembling a Psi reversed; tip ferruginous: legs tawny, clothed with black hairs and bristles; thighs black towards the base, claws and foot-cushions pale tawny; tips of the claws black: wings

gray, tawny towards the base; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight for rather more than half the length, very slightly curved outward from thence to the tip; scales dingy white. Length of the body 5½ lines; of the wings 11 lines.

a. *Nova Scotia*. From Lieut. Redman's collection.

b. ———?

## Group XII.

Third joint of the feelers very much longer than the second, flat above, slightly convex beneath, somewhat rounded at the tip; second joint of the bristle short, longer than the first.

*TACHINA signata*, n. s. *Fulva, thorace vittis quatuor nigris pectore cano, abdominis dorso plerumque nigro flavo vittato, antennis nigris, articulis 2º apice 3ºque basi subtus ferrugineis, pedibus fulvis, tarsis nigris, alis cinereis.*

Head tawny, with a stripe between the eyes from the crown to the base of the feelers, beset above with a few black bristles, clothed beneath with pale tawny hairs: epistoma prominent; no bristles on the sides of the face; sucker black, pitchy, and clothed with tawny hairs towards the tip; palpi tawny, beset with a few tawny hairs: eyes red, covered with pale tawny down: feelers black, shorter than the face; second joint towards the tip and third at the base beneath ferruginous; third joint flat above, slightly convex beneath, somewhat rounded at the tip, very much longer than the second joint; bristle downy, near twice the length of the third feeler-joint, rather thick for half its length from the base, slender thence to the tip; its second joint short, but longer than the first: chest dull tawny, thinly clothed with black hairs, beset with black bristles, adorned with four black stripes: breast hoary: abdomen deep tawny, adorned with slight pale tawny reflections, clothed with tawny hairs and black bristles, armed with some long black spines; much of its back occupied by a large black mark which forms an irregular cross, and contains a dull buff stripe: legs tawny, clothed with black hairs and bristles; feet black above: wings gray; wing-ribs and veins tawny; veins pitchy towards the tips, slightly clouded with brown; tip cross-vein forming an acute angle with the fourth longitudinal vein, much curved inward near the base, almost straight from thence to



the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two distinct curves, the lower inward, the upper outward; scales pale tawny. Length of the body 6 lines; of the wings 12 lines.

a. ———?

### Group XIII.

Third joint of the feelers nearly twice the length of the second, rather deep, flat above, slightly convex beneath, truncated at the tip; second joint of the bristle very short, but longer than the first.

*TACHINA* Alcis, n. s. *Fulva, thoracis vittis quatuor nigris, abdomine maculis nigris ornato, antennis pedibusque nigris, femoribus subtus tibiisque fulvis, alis cinereis fulvo vittatis.*

Head tawny, partly covered with whitish bloom, black above, beset with a few black bristles, clothed beneath with yellow hairs; epistoma very prominent; no bristles on the sides of the face; sucker black, pitchy, and clothed with yellow hairs towards the tip; palpi tawny, slender, rather long, clothed with a few long tawny hairs; eyes red, varied with black: feelers black, hardly as long as the face; third joint nearly twice the length of the second, rather deep, flat above, convex beneath, truncated at the tip; bristle downy, twice the length of the third feeler-joint, rather thick for two-thirds of the length from the base, slender thence to the tip; second joint of moderate length, longer than the first: chest and breast black, covered with a dark tawny bloom: chest clothed with black hairs and bristles, adorned with four slender black stripes; breast partly clothed with tawny hairs: scutcheon tawny, beset with long, slender black spines: abdomen tawny, clothed with black hairs, armed with black spines, which are mostly towards the tips, adorned above and below with a row of black spots, which increase in breadth from the base to the tip: legs black, clothed with black hairs and bristles; thighs beneath and shanks tawny: wings gray, tawny towards the base and along the fore borders and on the sides of the veins; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a very acute angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower distinct and inward, the upper outward and more slight; scales yellowish white. Length of the body 6 lines; of the wings 12 lines.

a. ———?

## Group XIV.

Third joint of the feelers nearly linear, much more than twice the length of the second joint, hardly concave above, slightly convex beneath, rounded at the tip; second joint of the bristle longer than the first.

*TACHINA Zelica*, n. s. *Fulva*, thorace ferrugineo, disco fusco quinque vittato, abdominis segmentorum marginibus posticis nigris, antennis piceis, articulo 3<sup>o</sup> nigro, pedibus ferrugineis, alis cinereis basi fulvis, venis fusco limbatis.

Body clothed with black hairs and bristles: head tawny, silky, clothed beneath with pale yellow hairs, darker on the crown, and having there a broad dark ferruginous stripe, which widens from the eyelets to the base of the feelers; sides of the face fringed with bristles for one-fourth of the length from the base; epistoma somewhat prominent: eyes pitchy, hairy, red along the borders: sucker black, clothed at the tip with tawny hairs: palpi tawny, long, beset with black bristles: feelers pitchy, shorter than the face; second joint ferruginous towards the tip; third joint black, nearly linear, much more than twice the length of the second joint, hardly concave above, slightly convex beneath, rounded at the tip; bristle much longer than the third joint, its second joint rather short, but longer than the first; third joint stout, tapering from the base to the tip: chest dark brown, adorned with five paler indistinct stripes; sides and scutcheon ferruginous; breast pitchy: abdomen bright tawny, clothed with tawny hairs and black bristles, the latter are chiefly on the hind borders of the segments and towards the tip; a black band on the hind border of each segment: legs ferruginous clothed with black hairs and bristles; claws and foot-cushions pale tawny; tips of the claws black: wings dark gray, tawny at the base, brown along the borders of the veins, and especially of the cross-veins; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, much curved near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; scales yellow with darker borders. Length of the body 7 lines; of the wings 13 lines.

a. New Zealand. Presented by Dr. Sinclair.

## Group XV.

Third joint of the feelers long, slender, linear, full thrice the length of the second joint, rounded at the tip, reaching the epistoma; first and second joint of the bristle very short.

*TACHINA breviventris*, *Wied. Auss. Zweif.* ii. 297, 28.

a. Jamaica. From Mr. Gosse's collection.

### Group XVI.

Third joint a little more than twice the length of the second, very slightly convex on the back, and equally concave beneath, rounded at the tip; second joint of the bristle short, hardly longer than the first.

*TACHINA patula*, n. s. *Nigra*, *thorace cinereo vittis nigris nigris*, *antennis pedibusque nigris*, *alis cinereis*.

Body black: head hoary, beset above and in front with black hairs and bristles, clothed beneath with white hairs; epistoma slightly prominent; no bristles on the sides of the face; sucker pitchy, clothed towards the tip with short pale tawny hairs; palpi long, tawny, beset with short black bristles: eyes bright red: feelers black, as long as the face; second joint reddish at the tip; third joint more than twice the length of the second, nearly linear, very slightly convex above, and equally concave beneath, rounded at the tip; bristle downy, slender, about twice the length of the third feeler-joint; second joint short, hardly longer than the first: chest and breast clothed with black hairs and bristles: chest covered with a gray bloom, which is indistinctly striped: scutcheon and abdomen thickly armed with black spines, the latter much broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions pale tawny: wings gray, darker at the base; wing-ribs pitchy; veins black; tip cross-vein forming hardly less than a right angle with the longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower slight and inward, the upper outward and extremely slight; scales blackish. Length of the body  $5\frac{1}{2}$  lines; of the wings 12 lines.

a. ——— ?

### Group XVII. *Jurinia*, *Desv. Essai. Myod.* 34.

*TACHINA hystrix*, *Fabr. Syst. Antl.* 310, 8. *Wied. Auss. Zweif.* ii. 283, 6. *Musca hystrix*, *Fabr. Syst. Ent.* 777, 21. *Ent. Syst.* iv. 325, 55. *Drury, Ins.* ii. pl. 45. f. 7. *Echinomyia hystrix*, *Macq. Hist. Nat. Dipt.* ii. 79, 30.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

*TACHINA basalis*, n. s. *Nigra, capite albo, abdomine rufo, antennis pedibusque nigris, alis cinereis, basi nigris, nervo transverso disci fusco nebuloso.*

Smaller than *T. hystrix*, the abdomen more thickly armed with spines, the wings rather paler. Body black: head white, gray with a brown stripe from the crown to the base of the feelers, beset above with a few black bristles, clothed beneath with white hairs; epistoma very prominent; sides of the face fringed with bristles on one-fourth of the length from the base: sucker black, clothed at the tip with a few short pale tawny hairs; palpi long, tawny, beset with short black bristles: eyes bright red, not hairy: feelers black, as long as the face; third joint hardly longer than the second, very convex above, flat beneath, rounded at the tip; bristle downy, gradually tapering from the base to the tip, much longer than the third feeler-joint, but not twice its length; second joint long, twice the length of the first: chest and breast thickly clothed with black hairs and bristles: scutcheon armed with black spines: abdomen deep dark red, shining, clothed with black hairs, armed with black spines which most abound towards the tip: legs black, clothed with black hairs and bristles; claws tawny, with black tips; foot-cushions yellow: wings gray, black at the base; wing-ribs red; veins black; the little cross-vein clouded with brown; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, almost straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein straight for nearly half the length from the base, very slightly curved outward from thence to the tip; scales blackish. Length of the body 6 lines; of the wings 12 lines.

a. Jamaica. From Mr. Gosse's collection.

*TACHINA gagatea*? *Jurinia gagatea*? Desv. *Essai Myod.* 36, 5.

a. Venezuela. From Mr. Dyson's collection.

*TACHINA alligans*, n. s. *Nigra, capite flavo, thorace fulvo-cinereo vittis quatuor nigris, scutello abdomineque rufo-nigris, antennis nigris, pedibus rufis, femoribus nigris, alis fuscis.*

Body black: head pale yellow, darker above, and adorned with a brown stripe, which widens from the crown to the base of the feelers, beset with a few black bristles, clothed beneath with yellowish white hairs; epistoma very prominent; no bristles on the sides of the face: eyes red, slightly bronzed: sucker black, pitchy and clothed with a few short tawny hairs at the tip: feelers black, as long as the face; third joint not longer than the second, very con-

vex above, pitchy and slightly concave beneath, rounded at the tip; bristle downy, about twice the length of the third joint, rather stout for about one-third of its length from the base, tapering and slender from thence to the tip, second joint of moderate length, longer than the first: chest tawny-gray, with four indistinct slender black stripes, clothed with black hairs and bristles: scutcheon and abdomen reddish black, shining, clothed with black hairs, armed with black spines: abdomen a little broader and longer than the chest: legs red, clothed with black hairs and bristles; hips and thighs black, covered with gray bloom; claws and foot-cushions pale tawny; tips of the claws black: wings brownish; wing-ribs and veins dark tawny; some of the latter pitchy; tip cross-vein forming an acute angle with the fourth longitudinal vein, having a short, but distinct inward curve near the base, straight from thence to the tip which joins the border at some distance above the tip of the wing; lower cross-vein almost straight for full half the length, slightly curved outward from thence to the tip; scales blackish. Length of the body 6 lines; of the wings 13 lines.

a. Venezuela. From Mr. Dyson's collection.

*TACHINA leucomelana*, n. s. *Nigra, capite albido, thorace pectoreque cinereis, illo obsolete vittato, antennis pedibusque nigris, alis cinereis.*

Body black: head yellowish white, beset above and in front with black bristles, clothed beneath with white hairs; crown black; epistoma very prominent; sides of the face bristly at the base; sucker black, ferruginous and clothed with short pale tawny hairs at the tip; palpi tawny: eyes red, slightly bronzed, not hairy; feelers black, as long as the face; third joint a little longer than the second, slightly convex above, flat beneath, almost truncated, but slightly rounded at the tip; bristle downy, slender, tapering from the base to the tip, full twice the length of the third feeler-joint, its second joint at least twice the length of the first: chest gray, clothed with black hairs and bristles, indistinctly striped; breast hoary; scutcheon armed with black spines: abdomen deep black, much broader than the chest, beset with black hairs and spines: legs black, clothed with black hairs and bristles; claws and foot-cushions pale tawny; tips of the claws black: wings gray; wing-ribs tawny; veins pitchy; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein almost straight, but a little inclined inward for more than half the length from the base, and very slightly curved outward from thence to the

tip; scales blackish. Length of the body 5 lines; of the wings 11 lines.

a. ———;

*TACHINA chrysiceps.* *Jurinia chrysiceps*, *Desv. Essai Myod.* 37, 8.

a. ———?

*TACHINA bicolor*, *Wied. Auss. Zweif.* ii. 282, 3. *Echinomyia fuligipennis*, *Macq. Hist. Nat. Dipt.* ii. 77, 24. *Jurinia bicolor*, *Macq. Dipt. Exot.* ii. 3, 39, 3, pl. 3, f. 7. *J. Brasiliensis*? *Desv. Essai Myod.* 35, 2. *Echinomyia Brasiliensis*? *Macq. Hist. Nat. Dipt.* ii. 77, 23.

a. ———? From Mr. Children's collection.

*TACHINA decisa*, n. s. *Nigra, capite albido, thorace subcinereo, lateribus scutello abdomineque rufis, abdomine nigro vittato, antennis ferrugineis, pedibus nigris, alis cinereis basi fuscis.*

Body black: head yellowish white, tawny, and adorned with a ferruginous stripe above, beset with a few black bristles, clothed beneath with yellowish white hairs; epistoma very prominent; no bristles on the sides of the face: sucker black, clothed towards the tip with short pale tawny hairs; palpi tawny, beset with short black bristles: eyes pitchy, red above and in front: feelers ferruginous, as long as the face; third joint a little shorter than the second, increasing in depth from the base to the tip, which is slightly rounded, but almost truncated; bristle downy, tapering, much less than twice the length of the third joint, its second joint long, twice the length of the first: chest slightly tinged with gray, dark red on each side, beset with black hairs and bristles: scutcheon and abdomen dark red, shining, clothed with black hairs, armed with black spines; an interrupted black stripe along the back of the abdomen: legs black, clothed with black hairs and bristles; claws tawny, with black tips; foot-cushions pale yellow: wings gray, brown at the base; wing-ribs and veins dark tawny, some of the latter pitchy; cross-veins, especially the little one in the disk, clouded with brown; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, much curved inward near the base, almost straight from thence to the tip which joins the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward, the upper outward; scales blackish. Length of the body 5—6 lines; of the wings 11—12 lines.

Var.  $\beta$ . Third joint of the feelers pitchy.

Var.  $\gamma$ . First and third joints of the feelers pitchy, third joint tawny at the base beneath.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.
- c. North America. Presented by the Entomological Club.

*TACHINA contraria*, n. s. *Fulva, capite flavo, abdomine nigro, antennis ferrugineis, articulo 3<sup>o</sup> nigro, pedibus fulvis, femoribus intermediis basi nigris, pedibus posticis piceis femoribus nigris, alis cinereis basi flavis.*

Head yellow, darker and adorned with a ferruginous stripe between the eyes, beset with a few black bristles, clothed beneath with pale yellow hairs; epistoma very prominent; no bristles on the sides of the face; sucker black, ferruginous, and clothed with short pale yellow hairs towards the tip: eyes red: feelers ferruginous, as long as the face; third joint black, hardly longer than the second, convex above, flat beneath, rounded at the tip; bristle downy, tapering, twice the length of the third joint, its second joint long and twice the length of the first: chest and breast tawny, clothed with black hairs and bristles; scutcheon armed with black spines: abdomen deep black, clothed with black hairs and spines: legs clothed with black hairs and bristles; fore legs and middle legs tawny; middle thighs black towards the base; hind legs pitchy, thighs black, knees tawny; claws and foot-cushions pale tawny, tips of claws black: wings gray, yellow at the base; wing-ribs and veins tawny, some of the latter black towards the tips; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight for half the length from the base, slightly curved outward from thence to the tip; scales dingy yellow. Length of the body 4 lines; of the wings 10 lines.

- a. Mexico. Presented by E. P. Coffin, Esq.

*TACHINA Boscii*. *Jurinia Boscii*, Desv. *Essai Myod.* 36, 4.

- a. ———?

*TACHINA epileuca*, n. s. *Fulvo-cinerea, capite albido, thorace vittis quatuor obscurioribus, pectore cano, abdomine rufo, antennis nigris, articulo 3<sup>o</sup> subtus ferrugineo, pedibus nigris, alis fusco-cinereis.*

Head yellowish white, darker and adorned with a pitchy stripe between the eyes, beset above with a few black bristles, clothed

beneath with yellowish white hairs; epistoma very prominent; no bristles on the sides of the face; sucker black, pitchy and clothed with a few short pale tawny hairs at the tip; palpi tawny: eyes red, not bristly: feelers black, as long as the face; third joint a little longer than the second, slightly convex above, ferruginous and flat beneath, rounded at the tip; bristle dark ferruginous, downy, slender, tapering, about twice the length of the third feeler-joint; first and second joints long, pitchy, of equal length: chest gray, with a tawny tinge, clothed with black hairs and bristles, adorned with four slender darker indistinct and interrupted stripes; breast hoary; scutcheon armed with black spines: abdomen very dark red, shining, beset with black hairs and spines: legs black, clothed with black hairs and bristles; thighs, especially the fore pair, covered with a grayish tawny bloom; claws tawny, with black tips; foot-cushions pale yellow: wings brownish gray; wing-ribs tawny; veins pitchy; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein nearly straight till near the tip, where it has a short and slight outward curve; scales blackish. Length of the body 7 lines; of the wings 15 lines.

a. Jamaica. From Mr. Gosse's collection.

*TACHINA metallifera*, n. s. *Nigra, capite albido, thorace subcinereo, abdomine nigroæneo, antennis fulvis articulo 3<sup>o</sup> piceo, pedibus nigris, alis cinereis basi vittisque fulvis.*

Body black: head yellowish white, grayish tawny including a ferruginous stripe between the eyes, beset above and in front with black bristles, clothed beneath with yellowish white hairs; epistoma prominent; no bristles on the sides of the face: sucker black, ferruginous, and clothed with short tawny hairs at the tip; palpi tawny, rather long: eyes red: feelers tawny, as long as the face; third joint pitchy, a little longer than the second, slightly convex above, flat beneath, rounded at the tip; bristle pitchy, tapering, almost naked, black towards the tip, less than twice the length of the third feeler-joint, its second joint long, about twice the length of the first: chest slightly tinged with gray, indistinctly striped, clothed with black hairs and bristles: scutcheon and abdomen armed with black spines: abdomen brassy-black above, black with hoary reflections beneath: legs black, clothed with black hairs and bristles; claws red, with black tips; foot-cushions pale tawny: wings gray, tawny at the base, slightly tawny on the fore borders and along the sides of the veins; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming hardly less than a right angle with the



fourth longitudinal vein, which sends forth a very short stump beyond it, slightly curved inward for half the length from the base, almost straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein slightly curved inward near the base, almost straight though indistinctly waving from thence to the tip; scales white. Length of the body 7 lines; of the wings 13 lines.

a. ———?

*TACHINA apicifera*, n. s. *Aeneo-fusca*, capite albo, pectore cano, abdomine nigroaeneo apice ferrugineo, antennis piceo fulvis, pedibus nigris, alis subcinereis basi fulvis.

Head white, brownish tawny including a tawny stripe between the eyes, beset above with some black bristles, clothed beneath with yellowish white hairs; epistoma prominent; no bristles on the sides of the face: sucker black, pitchy, and clothed with short tawny hairs at the tip; palpi tawny, rather short, beset with short black bristles: eyes pitchy: feelers tawny, as long as the face; first joint above and third joint pitchy; third joint as long as the second, very convex above near the base, flat on the underside, which is tawny towards the base, rounded at the tip; bristle naked, tapering from the base to the tip, much less than twice the length of the third feeler-joint, second joint very long, about thrice the length of the first: chest pale brassy-brown, covered with a hoary bloom, clothed with black hairs and bristles; scutcheon more or less ferruginous, armed with a few black spines; breast hoary: abdomen black, shining, with a very slight metallic tinge, armed with a few black spines towards the tip, which has hoary reflections on each side; last segment dark ferruginous: legs black, clothed with black hairs and bristles; claws tawny, with black tips; foot-cushions yellow: wings slightly gray, tawny towards the base; wing-ribs and veins tawny: tips of veins pitchy; tip cross-vein forming an acute angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein slightly curved inward near the base, and having a shorter and more slight outward curve close to the tip; scales dingy white. Length of the body 5—5½ lines; of the wings 10 lines.

a. North America. Presented by the Entomological Club.

b. ———?

*Fem.*?—Third joint of the feelers not very much more than half the length of the second; first joint tawny above: abdomen

rather longer than that of the male. Length of the body 7 lines ; of the wings 12 lines.

a. ———?

*TACHINA* Damippus, n. s. *Fulva, capite subtus flavo, thorace vitato, scutello ferrugineo, abdomine nigro, apice fulvo micante, antennis ferrugineis, articulo 3<sup>o</sup> pedibusque nigris, alis fuscis basi fusco-fulvis.*

Head tawny, pale yellow and shining in front and beneath, clothed with some short white hairs, beset with a few black bristles, furnished with a brownish stripe between the eyes and the feelers; epistoma prominent; no bristles on the sides of the face: sucker black, clothed towards the tip with short tawny hairs: palpi tawny, beset with black bristles, widened towards the tips: eyes dark red, bare: feelers ferruginous, as long as the face; third joint black, very convex above, flat and ferruginous beneath, rounded at the tip, a little shorter than the second joint; bristle bare, tapering, less than twice the length of the third feeler-joint, its second joint full twice the length of the first: chest dark tawny, adorned with five very indistinct darker stripes, beset with black bristles; breast paler, clothed with white hairs; scutcheon ferruginous: abdomen black, slightly shining, much broader than the chest, clothed with black hairs, beset with black bristles and spines, adorned with dark tawny reflections towards the tip: legs black, clothed with black hairs and bristles; claws tawny at the base; foot-cushions yellow: wings brown, brownish tawny at the base; wing-ribs deep tawny; veins pitchy; tip cross-vein forming a hardly acute angle with the fourth longitudinal vein, curved inward near the base, straight from hence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein having a slight inward curve near the base, and a short, but hardly perceptible outward curve close to the tip; scales brown, with tawny borders. Length of the body 6 lines; of the wings 13 lines.

a. ———?

*TACHINA* seminigra, Wied. Auss. Zweif. ii. 296, 26.

a. Para. Presented by Gordon Graham, Esq.

*TACHINA* infirma, n. s. *Nigra, thorace cinereo, scutello piceo margine postico ferrugineo, abdomine nigro, antennis ferrugineis, articulo 3<sup>o</sup> nigro, pedibus nigris, alis cinereis basi fulvis.*

Body black: head yellowish white, tawny between the eyes, beset above with a few black hairs and bristles, clothed beneath with yellowish white hairs; epistoma very prominent; no bristles on

the sides of the face: sucker black, pitchy, and clothed with short tawny hairs at the tip; palpi tawny, beset with short black bristles: eyes red, slightly bronzed: feelers ferruginous, as long as the face; third joint black, longer than the second, very convex above, flat beneath, rounded at the tip; bristle black, stout, naked, tapering, much longer than the third feeler-joint, though not near twice its length, its second joint long, twice the length of the first: chest and breast gray, clothed with black hairs and bristles; scutcheon pitchy, ferruginous on the hind border, armed with black spines: abdomen coal-black, shining, clothed with black hairs, armed with some black spines, which are mostly near the tip: legs black, clothed with black hairs and bristles; foot-cushions pale tawny: wings gray, tawny at the base; wing-ribs tawny; veins pitchy, tawny at the base; tip cross-vein forming a right angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two outward curves, the one short and at the base, the other longer and near the tip; scales dingy white. Length of the body  $5\frac{1}{2}$  lines; of the wings 9 lines.

a. Chili. From Mr. Cuming's collection.

### Group XVIII.

Third joint of the feelers longer than the second, convex above, flat beneath, rounded at the tip; first and second joints of the bristle long, and of nearly equal length.

*TACHINA candens*, n. s. *Nigra, capite albido, abdomine nigro-rufo, antennis ferrugineis, articulo 3<sup>o</sup> supra piceo, pedibus nigris, alis cinereis basi fulvis.*

Head yellowish white, tawny with a pitchy stripe between the eyes, beset above with a few black bristles, clothed beneath with pale yellow hairs: epistoma prominent; no bristles on the sides of the face: sucker black, pitchy, and clothed with short tawny hairs at the tip; palpi tawny, beset with short black bristles: eyes red, here and there pitchy, not hairy: feelers ferruginous, as long as the face; third joint longer than the second, pitchy and convex above, flat beneath, rounded at the tip: bristle black, downy, rather thick, tapering, longer than the third feeler-joint, its first and second joints long and of nearly equal length: chest black, thickly covered with tawny down, clothed with a few black hairs and bristles: scutcheon and abdomen armed with a few black spines, those on the abdomen are nearly all towards its tip: abdomen blackish red, shining, rather

paler, and with a slight tawny tinge here and there beneath: legs black, clothed with black hairs and bristles; hips and fore thighs covered with a tawny bloom; claws tawny, with black tips; foot-cushions pale tawny: wings gray, tawny at the base; wing-ribs tawny; veins pitchy, tawny at the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the upper outward; scales yellowish white. Length of the body 7 lines; of the wings 12 lines.

a. Nova Scotia. From Lient. Redman's collection.

### Group XIX.

Third joint of the feelers very convex on the back, much longer than the second joint, flat beneath, rounded at the tip; bristle pubescent; second joint much longer than the first, but not twice its length.

*TACHINA carbonifera*, n. s. *Cyaneo-nigra*, *capite flavo*, *antennis ferrugineis*, *articulo 3<sup>o</sup> nigro*, *pedibus nigris*, *alis cineris basi fulvis*.

Body bluish black, shining: head yellow, whitish in the cavity for the feelers, beset above and in front with black bristles, clothed beneath with pale yellow hairs; epistoma prominent; a few bristles on the lowest part of the sides of the face: sucker black, pitchy, and clothed with short tawny hairs at the tip; palpi tawny, beset with short black bristles: feelers ferruginous, as long as the face; third joint black, longer than the second, very convex above, ferruginous towards the lower border, which is flat; bristle downy, tapering from the base to the tip, not much longer than the third feeler-joint, its second joint long, more than twice the length of the first: chest beset with black hairs and bristles: breast slightly gray: abdomen clothed with black hairs, armed with some black spines, which are mostly towards the tip: legs black, clothed with black hairs and bristles; claws tawny, with black tips; foot-cushions pale tawny: wings gray, tawny towards the base; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, having a slight inward curve which decreases from the base to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two extremely slight curves, the lower inward, the upper outward; scales very dingy white. Length of the body 6 lines; of the wings 12 lines.

Group XX. Dumerillia, *Desv. Essai Myod.* 38.Group XXI. Peleteria, *Desv. Essai Myod.* 39.

**TACHINA** abdominalis. *Peleteria abdominalis, Desv. Essai Myod.*

41, 4. *Echinomyia abdominalis, Macq. Hist. Nat. Dipt.* ii. 78, 26. *Meig. Dipt.* vii. 186, 20.

a. Albania. Presented by W. W. Saunders, Esq.

Group XXII. Faurella, *Desv. Essai Myod.* 41.

**TACHINA** meridionalis. *Faurella meridionalis, Desv. Essai Myod.*

41, 1. *Echinomyia meridionalis, Macq. Hist. Nat. Dipt.* ii. 79, 28. *Meig. Dipt.* vii. 186, 19.

a. Albania. Presented by F. Walker, Esq.

Group XXIII. Fabricia, *Desv. Essai Myod.* 42.

**TACHINA** ferox, *Panz. Faun. Germ.* 104, 20. *Meig. Dipt.* iv. 240, 2.

*Musca rotundata, Harr. Ex.* 35, pl. 9, f. 2. *M. ferox, Panz. Faun. Germ.* 104, 20. *Echinomyia ferox, Macq. Hist. Nat. Dipt.* ii. 75, 17. *Ann. Soc. Ent. France, 2me série* iii. 254, 1, pl. 4, f. 2. *Zett. Dipt. Scand.* iii. 999, 8. *Fabricia ferox, Desv. Essai Myod.* 42, 1. *Ann. Soc. Ent. France, 2me série* ii. 12, 1.

a. England.

b. France.

c. Italy. From Dr. Leach's collection.

d. ———? From Mr. Children's collection.

**TACHINA** florum, *Barnston's MSS.* *Nigra, capite fulvo, thorace nigroæneo, scutello nigro-rufo, abdomine ferrugineo nigro vittato, antennis ferrugineis, articulo 3º nigro, basi fulvo, pedibus nigris, alis cinereis basi fulvis.*

Body black: head tawny, adorned with whitish lustre, almost black between the eyes, beset above with black bristles, clothed beneath with yellow hairs; epistoma very prominent; no bristles on the sides of the face: eyes red: sucker black, clothed at the tip with short tawny hairs; palpi tawny, slender, beset with black bristles; feelers ferruginous, as long as the face; third joint black, rather more than half the length of the second, tawny at the base beneath, deepening above and below from the base to the tip, which

is truncated; bristle black, downy, stout, tapering, hardly more than twice the length of the third feeler-joint, its second joint long, more than twice the length of the first: chest black, with a very slight brassy tinge, clothed with black hairs and bristles: scutcheon reddish black: abdomen ferruginous, adorned with a broad black stripe, clothed with black hairs and bristles; legs black, clothed with black hairs and bristles; claws ferruginous, with black tips; foot-cushions dark tawny: wings gray, tawny at the base; wing-ribs ferruginous; veins tawny, pitchy towards the tips; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two hardly perceptible curves, the one inward and near the base, the other outward and towards the tip; scales white. Length of the body  $4\frac{1}{2}$ — $5\frac{1}{2}$  lines; of the wings 10—11 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

*TACHINA* *algens*, Wied. *Auss. Zweif.* ii. 285, 8. *Echinomyia picea*, Desv. *Essai Myod.* 44, 2. *Macq. Hist. Nat. Dipt.* ii. 3, 372, pl. 3, f. 4.

a. Nova Scotia. From Lieut. Redman's collection.

#### Group XXIV. *Echinomyia*, *Dumeril*.

*TACHINA* *tepens*, n. s. *Nigra, capite aureo, thoracis lateribus scutelloque ferrugineis, abdomine nigro-rufo, antennis fulvis, pedibus nigris, alis subfuscis basi et ad costam fulvis.*

Head gold colour, paler in the cavity for the feelers, somewhat darker on the crown and between the eyes, beset above with black bristles, clothed beneath with yellow hairs; epistoma hardly prominent; no bristles on the sides of the face: sucker black, pitchy, and beset with short tawny hairs at the tip: eyes pitchy: feelers tawny, shorter than the face; third joint much shorter than the second, black above, slightly convex above and below, rounded at the tip; bristle pitchy, tapering, naked, rather more than twice the length of the third feeler-joint, its first and second joints rather long, of nearly equal length: chest black, clothed with black hairs and bristles, ferruginous on each side; scutcheon ferruginous, armed with some long black spines: abdomen blackish red, clothed with short black hairs, paler towards the tip, which is armed with black spines: legs black, clothed with black hairs and bristles; foot-cushions tawny:

wings pale brown, somewhat darker along the borders of the veins, bright tawny towards the base and along half the length of the fore border; wing-ribs ferruginous; veins pitchy, tawny where the wings have that colour; tip cross-vein forming a very slightly acute angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight, with the exception of two hardly perceptible outward curves, the one at the base, the other at the tip; scales dingy yellow. Length of the body 9 lines; of the wings 18 lines.

a. Silhet. From Mr. Sowerby's collection.

b. ——— ?

Var.  $\beta$ . Chest and abdomen paler: third joint of the feelers all tawny. Length of the body 6 lines; of the wings 14 lines.

a. Madras. Presented by Walter Elliott, Esq.

*TACHINA fimbriata*, n. s. *Nigra, capite aureo, scutello rufo-nigro, abdomine rufo nigro vittato, antennis pedibusque ferrugineis, femoribus nigris, alis fusco-cinereis basi fulvis.*

Body black: head gold colour, dull tawny between the eyes, beset above with black hairs and bristles, clothed beneath and more thickly behind with yellow hairs; epistoma somewhat prominent; no bristles on the sides of the face; sucker black, pitchy, and clothed with tawny hairs at the tip: palpi tawny, slender, rather long, beset with black bristles: eyes red: feelers ferruginous, as long as the face; third joint black, ferruginous beneath towards the base, much shorter than the second joint, slightly convex above, more convex beneath, rounded at the tip; bristle black, naked, tapering from the base to the tip, full twice the length of the third feeler-joint, its second joint rather long, more than twice the length of the first joint: chest and breast clothed with black hairs and bristles, slightly covered with grayish tawny bloom; scutcheon reddish black, armed with a few black spines: abdomen very dark red, with a black stripe in the middle, clothed with black hairs, armed with some black spines, which are mostly towards the tip: legs ferruginous, clothed with black hairs and bristles; thighs black; foot-cushions yellow; claws tawny, with black tips: wings brownish gray, pale tawny at the base; wing-ribs ferruginous; veins pitchy, tawny towards the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, curved a little inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two long and very indistinct curves, the lower inward, the upper outward; scales

yellowish white. Length of the body 7 lines; of the wings 12 lines.

a. ———? From Mr. Children's collection.

**TACHINA grossa**, *Fabr. Syst. Anth.* 310, 7. *Fall. Musc. Act. Holn.* 1810, 261, 1. *Meig. Dipt.* iv. 239, 1. *Latr. Reg. Anim.* v. 510. *Musca grossa*, *Linn. Syst. Nat.* ii. 991. *Faun. Suec.* 1837. *Gmel. Ed. Syst. Nat.* v. 2845, 75. *Fabr. Sp. Ins.* ii. 441. *Ent. Syst.* iv. 325, 53. *Reaum. Ins.* iv. pl. 26, f. 10. *Deg. Ins.* vi. 12, 1, pl. 1, f. 1, 2. *Panz. Faun. Germ.* 30, 21. *Herbst. Gem. Nat.* viii. 109, 14, pl. 311, f. 2. *Harr. Ex.* 35, pl. 9, f. 1. *Don. Brit. Ins.* x. 53, pl. 346, f. 1. *Stew. El.* ii. 259. *Turt.* iii. 605. *Shaw, Gen. Zool.* vi. 385. *Lam. Anim. sans Vertéb.* iii. 362, 8. *Echinomyia grossa*, *Dumeril, Latr. Gen. Crust.* iv. 343. *Cons. Gen.* 444. *Desv. Essai Myod.* 44, 1? *Ann. Soc. Ent. France*, 2me série, ii. 141. *Macq. Hist. Nat. Dipt.* ii. 71, 1. *Ann. Soc. Ent. France*, 2me série, iii. 255, 2, pl. 4, f. 6. *Zett. Dipt. Scand.* iii. 992, 1.

a. England.

b. France.

c. ———?

**TACHINA basifulva**, n. s. *Cinerea, capite albo, thoracis vittis quatuor obscurioribus, abdomine cyaneo-nigro, antennis nigris, articulo 3<sup>o</sup> subtus ferrugineo, pedibus nigris, alis fusco-cinereis basi fulvis.*

Head white, beset above and in front with a few black bristles, clothed beneath with white hairs: crown blackish, thinly clothed with hoary hairs; a pitchy stripe between the eyes; epistoma slightly prominent; no bristles on the sides of the face: sucker black, pitchy, and clothed with short tawny hairs at the tip; palpi pitchy, clothed with short black bristles tawny towards the tips: eyes pitchy: feelers black, hardly shorter than the face; third joint shorter than the second, very convex above, flat and ferruginous beneath, rounded at the tip; bristle naked, tapering from the base to the tip, less than twice the length of the third feeler-joint; its second joint more than twice the length of the first joint: chest gray, with four darker, slender, very indistinct stripes, slightly shining, clothed with black hairs and bristles, somewhat tawny about the roots of the wings; scutcheon armed with black spines: abdomen bluish black, shining, beset with black hairs and spines, slightly covered with a gray bloom: legs black, clothed with black hairs and bristles; foot-cushions small, pale tawny: wings brownish gray, tawny towards the base; wing-ribs tawny; veins tawny,



pitchy towards the tips ; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing ; lower cross-vein almost straight, with the exception of two very indistinct curves, the lower inward, the upper outward ; scales blackish. Length of the body 5—5½ lines ; of the wings 11—12 lines.

a. Jamaica. From Mr. Gosse's collection.

*TACHINA* *Anaxias*, n. s. *Nigra, capite fulvo, thorace vittis quinque canis, scutello abdominisque apice rufis, antennis ferrugineis, articulo 3º nigro, pedibus nigris, alis fuscis basi subfulvis.*

Body black : head tawny, with paler reflections, darker on the crown, beset above with black bristles, clothed beneath with pale yellow hairs ; epistoma very prominent ; no bristles on the sides of the face : sucker black, pitchy, and clothed with short tawny hairs at the tip ; palpi tawny, very slender, beset with black bristles : eyes red : feelers ferruginous, as long as the face ; third joint black, more than half the length of the second, very convex above, flat beneath, rounded at the tip ; bristle black, naked, tapering, about twice the length of the third feeler-joint, its second joint long, about twice the length of the first : chest clothed with black hairs and bristles, adorned with five indistinct hoary stripes ; scutcheon dull dark red : abdomen black, with hoary reflections, clothed with black hairs, armed with a few black spines ; the last segment red : legs black, clothed with black hairs and bristles ; claws tawny, with black tips ; foot-cushions pale yellow : wings brown, with a tawny tinge towards the base ; wing-ribs and veins tawny, the latter pitchy towards the tips ; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, curved inward near the base. straight from thence to the tip, which joins the border at some distance above the tip of the wing ; lower cross-vein straight till near the tip, where it is slightly curved outward ; scales dingy white. Length of the body 5 lines ; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA* *fera*, *Fabr. Syst. Anth.* 308, 1. *Fall. Act. Holm.* 1810, 262, 2. *Musc.* 3, 2. *Meig. Dipt.* iv. 340, 3. *Musca reccumbo*, *Harr. Ex.* 35, pl. 9, f. 4. *Echinomyia fera*, *Dumeril, Latr. Gen. Crust.* iv. 343. *Desv. Essai Myod.* 46, 9. *Ann. Soc. Ent. France*, 2me série, ii. 14, 1. *Mucq. Hist. Nat. Dipt.* ii. 72, 5. *Ann. Soc. Ent. France*, 2me série, iii. 256, 3, pl. 4, f. 1. *Zett. Dipt. Scand.* iii. 994, 3. *Musca fera*, *Linn. Syst. Nat.* ii. 991.

*Faun. Suec.* 1836. *Gmel. Ed. Syst. Nat.* 2845, 74. *Fabr. Sp. Ins.* ii. 441, 28. *Ent. Syst.* iv. 324, 29. *Schell. Gen. Mouch.* pl. 2, f. 1. *Herbst, Gem. Nat.* viii. 109, 13, pl. 341, f. 1. *Panz. Faun. Germ.* 20, 18? *Schrank, Faun. Boic.* iii. 2438. *Ins. Austr.* 934. *Geoff. Ins.* ii. 509, 33. *Stew. El.* 258. *Turt.* iii. 604. *Lam. Anim. sans Verteb.* iii. 362, 9. *Latr. Gen. Crust.* iv. 343. Var. *Echinomyia analis*, *Desv. Ann. Soc. Ent. France*, 2me série, ii. 16, B. Var. *E. intermedia*, *Desv. Essai Myod.* 47, 10. *Ann. Soc. Ent. France*, 2me série, ii. 16, C. Var. *E. nigrofemorata*, *Desv. Ann. Soc. Ent. France*, 2me série, ii. 16, D. Var. *E. rubricornis*, *Desv. Essai Myod.* 46, 7. *Ann. Soc. Ent. France*, 2me série, ii. 16, E. Var. *E. testacea*, *Desv. Essai Myod.* 48, 14. *Ann. Soc. Ent. France*, 2me série, ii. 17. Var. *Tachina tessellata*, *Fabr. Syst. Antl.* 309, 5. *Meig. Dipt.* iv. 242, 5. *Musca tessellata*, *Fabr. Ent. Syst.* iv. 324, 5. *Echinomyia tessellata*, *Desv. Essai Myod.* 47, 11. *Macq. Hist. Nat. Dipt.* ii. 73, 10.? *Zett. Dipt. Scand.* iii. 997, 6. Var. *E. errans*, *Desv. Essai Myod.* 45, 5. Var. *E. vernalis*, *Desv. Essai Myod.* 48, 12. Var. *Tachina virgo*, *Meig. Dipt.* iv. 243, 6. *Echinomyia virgo*, *Macq. Hist. Nat. Dipt.* ii. 73, 9. *Zett. Dipt. Scand.* iii. 995, 4. Var.? *Echinomyia magnicornis*, *Zett. Dipt. Scand.* iii. 996, 5. Var.? *E. ferina*, *Zett. Dipt. Scand.* iii. 998, 7. Var.? *E. nigricornis*, *Meig. Dipt.* vii. 182, 8.

a. England.

b. France.

c. Italy. From Dr. Leach's collection.

d. ———? From Mr. Children's collection.

*TACHINA iterans*, n. s. *Æneo picea, capite fulvo, thorace cano vittato, scutello ferrugineo, abdomine fulvo nigro vittato, antennis nigris, articulo 2º ferrugineo, pedibus nigris, femoribus tibiisque subtus ferrugineis, alis subcinereis basi subfulvis.*

Head pale tawny, darker, and including a pale ferruginous stripe between the eyes, beset above and in front with black bristles, clothed beneath with pale yellow hairs; epistoma very prominent; no bristles on the sides of the face: sucker black, clothed at the tip with short tawny hairs; palpi tawny, beset with black bristles: eyes red, slightly bronzed: feelers black, as long as the face; second joint mostly ferruginous; third joint much shorter than the second, extremely convex above, slightly convex beneath, almost truncated at the tip; bristle naked, stout, tapering, a little longer than the third feeler-joint, its first and second joints long, of nearly equal length: chest pitchy, with a slight brassy tinge, beset

with black bristles, adorned with hoary stripes; scutcheon ferruginous, tinged with a brassy brown hue: abdomen tawny, with some slight tawny reflections, adorned on the back with an irregular black stripe: legs black, clothed with black hairs and bristles; thighs and shanks dark ferruginous beneath; claws ferruginous, with black tips; foot-cushions pale tawny: wings pale gray, with a slight tawny tinge at the base; wing-ribs and veins tawny; veins pitchy at the tips; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein very slightly curved outward along nearly the whole length; scales dingy white. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA Sacontala*, n. s. *Nigra, thoracis lateribus scutelloque ferrugineis, abdomine fulvo vitta dorsali nigra, pedibus fulvis, femoribus nigris, alis subcinereis.*

Head wanting: chest and breast black: chest clothed with black hairs, beset with black bristles; sides and scutcheon ferruginous; scutcheon armed with some black spines: abdomen tawny, with paler reflections along the sutures, clothed with black hairs, armed towards the tip with black spines, adorned on the back with a black stripe, which tapers from the base and disappears before the last segment: legs tawny, beset with black hairs and bristles; hips and thighs black: wings light gray; wing-ribs and veins tawny; cross-vein in the disk and tip cross-vein pitchy; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein very slightly curved outward along the whole length; scales dingy white, with pale tawny borders. Length of the body 4 lines; of the wings 8 lines.

a. Nepaul. From the Hardwicke bequest.

*TACHINA punctifera*, n. s. *Cinereo-fulva, capite scutelloque fulvis, abdomine fulvo, albo micante vittaque nigra dorsali ornato, antennis ferrugineis, articulo 3<sup>o</sup> nigro, pedibus nigris, tibiis fulvis, alis subcinereis fusco binotatis.*

Head tawny, darkest above, closely covered with whitish shining down, beset with a few black hairs and bristles, thickly clothed beneath behind and on each side with yellow hairs; epistoma very prominent; no bristles on the sides of the face: sucker pitchy,

clothed towards the tip with short yellow hairs: eyes dark red: feelers dark ferruginous, as long as the face; third joint black, not much shorter than the second, extremely convex above, flat beneath, rounded at the tip: bristle black, stout, tapering, not much longer than the third feeler-joint, its first and second joints long, strongly marked, of equal length; first joint curved: chest and breast black, covered with grayish tawny bloom, clothed with black hairs: chest indistinctly striped, beset with black bristles; scutcheon tawny: abdomen tawny, nearly cylindrical, much longer than the chest, adorned with whitish reflections, clothed with black hairs, armed towards the tip with black spines; a black stripe on the back forms a triangular spot on each segment and occupies the whole breadth of the tip: legs black, clothed with black hairs and bristles; shanks dark tawny; foot-cushions pale tawny: wings light gray: wing-ribs and veins tawny; veins pitchy towards the tips; the little cross-vein in the disk and the lower end of the tip cross-vein clouded with brown; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, curved a little inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight till near the tip, where it has an outward curve; scales pale tawny. Length of the body 6 lines of the wings 10 lines.

a. Massachusetts. From Prof. Sheppard's collection.

*TACHINA lurida*, *Fabr. Syst. Antl.* 310, 6. *Meig. Dipt.* iv. 244, 8. *T. leucocoma*, *Meig. Dipt.* iv. 244, 9. *Musca lurida*, *Fabr. Sp. Ins.* ii. 441, 29. *Ent. Syst.* iv. 324, 52. *Gmel. Ed. Syst. Nat.* v. 2845, 205. *Echinomyia lurida*, *Macq. Hist. Nat. Dipt.* i. 75, 14. *Ann. Soc. Ent. France*, 2me série, iii. 264, 11, pl. 4, f. 10. *E. cucullix*, *Desv. Essai Myod.* 49, 16. *Ann. Soc. Ent. France*, 2me série, ii. 195. *E. lateralis*, *Desv. Essai Myod.* 49, 15. *E. leucocoma*, *Macq. Hist. Nat. Dipt.* ii. 75, 15. *Ann. Soc. Ent. France*, 2me série, iii. 265, 13, pl. 4, f. 9.

a. England.

b. France.

*TACHINA aberrans*, n. s. *Cinerea, capite fulvo, thorace vittis quatuor nigris, pectore cano, scutello abdomineque ferrugineis, antennis fulvis articulo 3<sup>o</sup> piceo, pedibus fulvis, alis snbfuscis.*

Head pale tawny, covered with a white lustre, beset with a few black bristles, thinly clothed with white hairs; epistoma slightly prominent; no bristles on the sides of the face: sucker pitchy, ferruginous, and clothed with tawny hairs towards the tip: eyes red, slightly bronzed: feelers tawny, as long as the face; third joint

pitchy, much shorter than the second, slightly convex above, flat beneath, obliquely truncated at the tip: chest gray, clothed with black hairs and bristles, adorned with four black stripes, middle pair of stripes slender, outer pair broader: breast hoary: scutcheon and abdomen ferruginous, with tawny reflections; scutcheon armed with a few long black bristles: abdomen obconical, clothed with short black hairs, and towards the tip with some black spines: legs tawny? wings pale brown; wing-ribs and veins tawny; veins pitchy towards the tips; cross-veins very slightly bordered with brown; tip cross-vein forming a hardly acute angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip; lower cross-vein straight for half the length, slightly curved outward from thence to the tip; scales white; poisers tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. ———?

Group XXV. *Servillia*, *Desv. Essai Myod.* 49.

*TACHINA ursina*, *Meig. Dipt.* iv. 245, 11. *Musca fusca*, *albocincta*, *Geoff. Servillia ursina*, *Desv. Essai Myod.* 50, 1. *Ann. Soc. Ent. France*, 2me série, ii. 22, 1. Var. *S. pilosa*, *Desv. Essai Myod.* 50, 2. *Echinomyia ursina*, *Macq. Hist. Nat. Dipt.* ii. 76, 18. *Ann. Soc. Ent. France*, 2me série, iii. 265, 12. Var. *E. pilosa*, *Macq. Dipt. Nord.* 184, 2. *Hist. Nat. Dipt.* ii. 76, 19. Var. *E. subpilosa*, *Macq. Dipt. Nord.* 184, 3. *Hist. Nat. Dipt.* ii. 76, 23. *Servillia pilosa*, *Meig. Dipt.* vii. 187, 5. *S. subpilosa*, *Meig. Dipt.* vii. 188, 6.

a. England.

Group XXVI. *Eurithia*, *Desv. Ann. Soc. Ent. France*, 2me série, ii. 24.

*TACHINA viridulans*. *Erigone puparum*, *Desv. Essai Myod.* 67, 4. *E. tessellans*, *Desv. Essai Myod.* 67, 6. *E. viridulans*, *Desv. Essai Myod.* 68, 7. *E. dubia*, *Desv. Essai Myod.* 68, 8. *Nemoræa viridulans*, *Macq. Hist. Nat. Dipt.* ii. 101, 10. *Eurithia puparum*, *Desv. Ann. Soc. Ent. France*, 2me série, ii. 25, 1.

a. England.

b. ———?

Group XXVII. *Cuphocera*, Macq. *Ann. Soc. Ent. France*, 2me série, iii. 265, 12.

### Group XXVIII.

Third joint of the feelers deep, slightly increasing in depth from the base to the tip, where it is truncated, much longer than the second joint, but not near twice its length; bristle stout, tapering; second joint much longer than the first.

*TACHINA speculifera*, n. s. *Nigra, nitens, capite albo-hirto, thoracis vittis duabus scutelloque ferrugineis, pectore cinereo, abdominis apice cano, antennis pedibusque nigris illorum articulis 1° et 2° apice ferrugineis, alis cinereis.*

Body black, very shining: head covered in front with white down, thickly clothed behind and beneath with white hairs, beset above with black bristles; sides of the face fringed with bristles at the base; epistoma prominent; sucker pitchy, clothed at the tip with tawny hairs; eyes red, thickly covered with hoary down: feelers black, nearly as long as the face; first and second joints with ferruginous tips; third joint less than twice the length of the second, flat above, slightly deepening from the base to the tip, which is almost truncated; bristle tapering, about twice the length of the third feeler-joint, its second joint longer than the first: chest beset with very few black bristles, adorned with a ferruginous stripe along each side; scutcheon ferruginous; breast gray: abdomen clothed with black hairs, armed with black spines towards the tip, each side of which is adorned with hoary reflections: legs black, clothed with black hairs, armed with black spines and bristles; claws ferruginous at the base; foot-cushions pale tawny: wings gray; wing-ribs and veins pitchy; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, which sends forth a stump beyond it, very slightly curved inward at the base, straight from thence to the tip, joining the border at a short distance above the tip; lower cross-vein with two very slight curves, the lower inward, the other outward and very indistinct; scales dingy white. Length of the body 4 lines; of the wings 10 lines.

a. North America. Presented by the Entomological Club.

### Group XXIX.

Third joint of the feelers longer than the second, very convex above, flat beneath, rounded at the tip; second joint of the bristle twice the length of the first.

**TACHINA** Ampelus, n. s. *Nigra, capite argenteo, thoracis vittis quinque, canis, scutelli margine postico rufo, abdomine cano micante, apice rufo, antennis pedibusque nigris, alis subcinereis.*

Body black: head covered with a silvery bloom, tawny about the mouth, beset with black hairs and bristles, clothed behind and beneath with white hairs; sides of the face fringed with bristles at the base; epistoma very prominent; sucker black, clothed at the tip with tawny hairs; palpi tawny: eyes red, thickly clothed with tawny down: feelers black, nearly as long as the face; third joint longer than the second, very convex above, flat beneath, rounded at the tip; bristle naked, rather stout, though tapering from the base to more than half the length; second joint long, twice the length of the first: chest clothed with black hairs and bristles, adorned with five indistinct hoary stripes; scutcheon armed with long black spines, dark red along the hind border: abdomen covered with black hairs and with a few black spines, adorned with hoary reflections; last segment red, shining: legs black, clothed with black hairs and bristles; claws towards the base and foot-cushions tawny: wings light gray: wing-ribs and veins pitchy; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, slightly curved inward along its whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; scales dingy white. Length of the body 4 lines; of the wings 8 lines.

*a.* Nova Scotia. From Lieut. Redman's collection.

### Group XXX.

Third joint of the feelers full as long as the second, flat above, slightly convex beneath, deepening from the base to the tip, which is truncated; second joint of the bristle longer than the first.

**TACHINA** degenera, n. s. *Nigra, capite antico flavo pubescente, palpis fulvis, antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head tawny about the mouth, covered in front with pale yellow down, beset above with a few black bristles, clothed beneath with some pale yellow hairs; sides of the face fringed with bristles at the base; epistoma very prominent: sucker black, dark ferruginous and clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: eyes dark red, not hairy: feelers black, nearly as long as the face: third joint full as long as the second, flat above, slightly convex be-

neath, deepening from the base to the tip, which is truncated; bristle naked, its second joint of moderate length, longer than the first: scutcheon and abdomen towards the tip armed with some long black spines: legs black, clothed with black hairs and bristles; claws ferruginous at the base; foot-cushions pale yellow: wings slightly gray; wing-ribs and veins pitchy; tip cross-vein forming a right angle with the fourth longitudinal vein, which sends forth a very short stump beyond it, much curved inward, straight towards the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower distinct and inward, the other outward and hardly perceptible; scales dingy white. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

Div. B. Anthophilæ, Desv. *Essai Myod.* 51.

### Group I.

Third joint of the feelers nearly linear, slightly concave above, flat beneath, twice or almost twice the length of the second joint; second joint of the bristle short, but longer than the first; middle legs long.

TACHINA Anthemon, n. s. *Fulva, thorace cinereo, abdominis apice nigro, antennis fulvis articulo 3<sup>o</sup> ferrugineo, pedibus fulvis, alis fusco-fulvis.*

Head tawny, partly covered with white shining down; borders of the cavity between the eyelets and the feelers gray, and beset with black bristles; head elsewhere beset with a few black bristles, paler and clothed with some white hairs beneath; epistoma not prominent; sides of the face fringed with bristles for one-third of the length from the base: sucker tawny, thinly clothed with pale yellow hairs; palpi tawny, beset with black bristles: eyes red, covered with whitish down; facets on the fore part rather larger than those elsewhere: feelers tawny, shorter than the face; third joint ferruginous, slender, almost linear, slightly concave above, flat beneath, rounded at the tip, about twice the length of the second joint; bristle black, tawny at the base, tapering, more than twice the length of the third feeler-joint, its second joint short, but longer than the first: chest and breast gray; chest beset with black bristles; sides tawny, and clothed like the breast with short tawny hairs; scutcheon covered



with white down and beset with black bristles: abdomen pale tawny, beset with black bristles, these are mostly towards the tip, which is black: legs pale tawny, rather long, especially the middle pair, beset with black bristles; tips of the claws black; foot-cushions yellow: wings brownish tawny, rather darker along the borders of the veins; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a right angle with the fourth longitudinal vein, which sends forth a stump beyond it, very slightly curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower slight and inward, the upper outward and more distinct; scales pale yellow; poisers tawny. Length of the body 7 lines; of the wings 14 lines.

a. Brazil. From Mrs. Noel's collection.

*TACHINA* Amisias, n. s. *Fulva, thorace flavo-fusco vittis quinque nigris, abdominis apice nigro, antennis fulvis articulo 3<sup>o</sup> nigro, pedibus fulvis, alis subfuscis.*

Head tawny, covered with pale yellow down, beset with a few black bristles, more thickly clothed beneath with yellow hairs; cavity between the eyelets and the feelers brown, its borders grayish tawny and beset with black bristles; epistoma not prominent; sides of the face fringed with bristles for one-third of the length from the base; sucker tawny, clothed with a few yellow hairs; palpi tawny, beset with black bristles: eyes red, with a slight brassy tint, clothed with pale yellow down: feelers tawny, shorter than the face; third joint black, nearly linear, deeper than that of *T. Anthemion*, very slightly concave above, flat beneath, rounded at the tip, almost twice the length of the second joint; bristle black; tapering, much more than twice the length of the third feeler-joint, its second joint short, but not longer than the first: chest yellowish brown, adorned with five interrupted black stripes, beset with black bristles; scutcheon tawny; breast tawny, covered with a hoary bloom, clothed with short yellow hairs: abdomen pale tawny, beset with black bristles, these are mostly towards the tip, which is black: legs pale tawny, rather long, especially the middle pair, beset with black bristles; tips of the claws black; foot-cushions yellow: wings light brown; wing-ribs tawny; veins pitchy; tip cross-vein, like that of the preceding species, forming a very slightly obtuse angle with the fourth longitudinal vein; lower cross-vein with two curves, the lower inward, shorter and more distinct than the upper, which is outward; scales brown; poisers tawny. Length of the body 5 lines; of the wings 11 lines.

a. ———? From Mr. Children's collection.

Group II. Linnæmyia, Desv. *Essai Myod.* 52.

**TACHINA** Titan, n. s. *Nigra*, scutello nigro-ferrugineo, abdomine ferrugineo, nigro vittato, antennis fulvis, articulo 3<sup>o</sup> nigro, pedibus nigris, alis subcinereis basi et ad costam fulvis, venis fusco nebulosis.

Body deep black: head slightly covered with ferruginous bloom, beset with black hairs and bristles; epistoma slightly prominent; face dull tawny, its sides fringed with bristles along one-third of the length from the base; sucker black, ferruginous, and clothed with tawny hairs at the tip; palpi deep tawny, beset with black bristles: eyes pitchy: feelers deep tawny, much shorter than the face; third joint black, linear, slender, rounded at the tip, longer than the second; bristle black, slender, downy, tapering from the base to the tip, full thrice the length of the third joint; its second joint of moderate length, longer than the first: chest and breast very thickly clothed with black hairs and bristles; scutcheon very dark ferruginous with slight tawny reflections, beset with black bristles: abdomen ferruginous, clothed with short black hairs, and on each side towards the tip with longer black hairs, beset with black bristles, which are mostly towards the tip, adorned with a black stripe, which decreases in breadth from the base to the tip: legs black, clothed with black hairs and bristles; claws and foot-cushions tawny; tips of the claws black: wings light gray, bright tawny towards the base and along the fore borders for half the length; wing-ribs ferruginous; veins tawny, pitchy, and distinctly bordered with brown in the gray part of the wing; tip cross-vein forming a right angle with the fourth longitudinal vein, very slightly curved outward along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein slightly curved inward near the base, straight from thence to the tip, where it is very slightly curved outward; scales dingy white. Length of the body 10 lines; of the wings 22 lines.

a. Silhet.

**TACHINA** vulpina, Fall. *Musc.* 23, 47, Meig. *Dipt.* iv. 260, 35. Zett. *Dipt. Scand.* iii. 1087, 84. Linnæmyia sylvestris, Desv. *Essai Myod.* 53, 2. L. vulpina, Desv. *Ann. Soc. Ent. France*, 2me série, ii. 30, 1. Var. ? L. ænanthis, Desv. *Ann. Soc. Ent. France*, 2me série, ii. 33, 3. Bonnetia ænanthis, Desv. *Essai Myod.* 56, 2. Micropalpus vulpinus, Macq. *Hist. Nat. Dipt.* ii. 81, 2. *Ann. Soc. Ent. France*, 2me série, iii. 270, 1, pl. 5, f. 1. Meig. *Dipt.* vii. 217, 2, pl. 70, f. 18. Musca investigator? Harr. *Ex.* 35, pl. 9, f. 3.

a. England.

b. ——— ?

**TACHINA fulgens**, *Meig. Dipt.* iv. 259, 34, *pl.* 41, *f.* 23. *Zett. Dipt. Scand.* iii. 1096, 93. *Linnæmyia Heraclæi*, *Desv. Essai Myod.* 53, 3. *Ann. Soc. Ent. France*, 2me série, ii. 31, 2. *L. analis*, *Desv. Essai Myod.* 54, 4. *L. borealis*, *Desv. Essai Myod.* 54, 7. *L. æstivalis*, *Desv. Essai Myod.* 54, 6. *Micropalpus Heraclæi*, *Macq. Dipt. Nord.* 181, 3. *Hist. Nat. Dipt.* ii. 81, 3. *Meig. Dipt.* vii. 219, 14. *M. analis*, *Macq. Hist. Nat. Dipt.* ii. 82, 4. *M. borealis*, *Macq. Dipt. Nord.* 182, 4. *Hist. Nat. Dipt.* ii. 82, 5. *Meig. Dipt.* vii. 220, 15. *M. fulgens*, *Macq. Hist. Nat. Dipt.* ii. 83, 10. *Meig. Dipt.* vii. 217, 1, *pl.* 7, *f.* 12—14.

a. England.

b. France.

**TACHINA Orbilius**, n. s. *Plumbea, capite cano micante maculisque duabus rufis ornato, abdomine nigro-æneo, palpis fulvis, antennis ferrugineis, articulo 3º nigris basi ferrugineo, pedibus ferrugineis, tarsis nigris, alis albidis basi subfulvis.*

Body black: head covered with hoary lustre, thinly clothed with black hairs, beset with black bristles: a large red spot on each side of the face, which has a broad tawny border, and is fringed with bristles on each side of the base; epistoma slightly prominent: eyes dark red, hairy: sucker ferruginous, clothed with short tawny hairs; palpi tawny, beset with a few black bristles: feelers ferruginous, a little shorter than the face; third joint black, ferruginous at the base, about twice the length of the second joint, nearly linear, but slightly decreasing in depth from the base to the tip, which is rounded; bristle black, about twice the length of the third feeler-joint, its second joint hardly twice the length of the first; third joint stout for about one-third of its length, very slender from thence to the tip: chest and breast covered with a bluish gray bloom, clothed with black hairs: abdomen brassy, clothed with short black hairs, beset with black bristles: legs ferruginous, clothed with black hairs and bristles; shanks darker than the thighs; feet black; claws tawny at the base; foot-cushions dingy white: wings whitish, slightly tawny at the base; wing-ribs and veins tawny; veins black towards the tips; little cross-vein in the disk angular, clouded with brown; lower cross-vein slightly curved near the base, almost straight from thence to the tip; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, having an indistinct inward curve near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; scales dingy white, bordered with yellow; poisers pale tawny. Length of the body 4 lines; of the wings 8 lines.

a. England.

*TACHINA* Mesula, n. s. *Cana, capite antico fulvo, abdominis maculis duabus fulvis, segmentorum marginibus posticis nigris, palpis fulvis, antennis pedibusque nigris, tibiis fulvis, alis limpidis ad costam spinosis.*

Body black, mostly covered with hoary bloom: head tawny in front, clothed behind and beneath with black hairs, beset with a few black bristles, but having none along the sides of the face; epistoma slightly prominent: eyes dark red, not hairy: sucker pitchy, clothed at the tip with short pale hairs; palpi very slender, tawny, beset with black bristles: feelers black, as long as the face; third joint about thrice the length of the second, a little increasing in depth from the base to the tip, which is truncated; bristle black, stout till near the tip, much longer than the third feeler-joint, its second joint long, full twice the length of the first: chest and breast gray, clothed with black hairs and bristles: abdomen obconical, hoary, clothed with black hairs, armed with black spines, much longer than the chest; hind borders of the segments black; a large tawny spot on each side of the second segment: legs black, clothed with black hairs and bristles; shanks tawny: foot-cushions tawny: wings colourless, each with a spine on the fore border; wing-ribs tawny; veins black, yellow at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, straight till near the tip, where it has a slight inward curve, joining the border at some distance above the tip of the wing; lower cross-vein nearly straight, but having a very slight inward curve a little below the middle; scales dingy white, with yellow borders; poisers tawny. Length of the body 4 lines; of the wings 7 lines

a. England.

### Group III. *Bonellia*, Desv. *Essai Myod.* 56.

*TACHINA* picea, Megerle, Meig. *Dipt.* iv. 246, 12. *Bonellia tessellans?* Desv. *Essai Myod.* 56, 1. *T. lateralis*, mas.? Desv. *Essai Myod.* 57, 2. *Micropalpus tessellans?* Macq. *Hist. Nat. Dipt.* ii. 82, 6. Meig. *Dipt.* vii. 219, 13.

a. England.

*TACHINA* rubiginosa. *Bonellia rubiginosa*, Desv. *Essai Myod.* 57, 3. *Micropalpus rubiginosus*, Macq. *Dipt. Nord.* 182, 6. *Hist. Nat. Dipt.* ii. 83, 7. Meig. *Dipt.* vii. 219, 12.

a. England.

*Note.*—The definitions as groups of all the following described species of *Tachina* are comprised in the specific characters.

**TACHINA** Crisia, n. s. *Nigro-cinerea, capite antico ferrugineo, thoracis antici vittis quatuor nigris, abdominis segmentorum lateribus posticis canis, palpis antennis pedibusque nigris, alis subcinereis basi venarumque marginibus subfuscis.*

Body black: head ferruginous in front, yellow about the mouth, clothed above with black hairs, and beneath with pale tawny hairs; sides of the face fringed with bristles at the base; epistoma prominent: eyes dark red, hairy: sucker black, pitchy, and clothed with pale tawny hairs at the tip; palpi black, slender, beset with black bristles: feelers black, as long as the face; third joint nearly twice the length of the second, increasing in depth from the base to the tip, which is rounded; bristle tapering, more than twice the length of the third feeler-joint, its second joint full twice the length of the first: chest and breast clothed with black hairs and bristles, slightly covered with a gray bloom, which is interrupted by four slender black stripes on the fore part of the chest: abdomen shining, obconical, longer than the chest, clothed with black hairs, armed with black spines, covered with hoary bloom on each side of the hind borders of the segments: legs black, clothed with black hairs and bristles; foot-cushions and claws ferruginous; tips of the claws black: wings light gray, with a brownish tinge at the base and along the borders of the veins; wing-ribs tawny; veins pitchy, tawny at the base; tip cross-vein forming a nearly right angle with the fourth longitudinal vein, slightly curved inward along its whole length, joining the border at some distance above the tip of the wing; lower cross-vein with three curves, the first short, slight and outward, the second long, distinct and inward, the third long, slight and outward; scales dingy white, with pale yellow borders; poisers tawny. Length of the body 5 lines; of the wings 9 lines.

a. England.

**TACHINA** rudis, Fall. *Musc.* 27, 56. *Meig. Dipt.* iv. 246, 13. *Zett. Dipt. Scand.* iii. 1100, 97. *Nemorea rudis*, *Meig. Dipt.* vii. 221, 3.

a. England.

**TACHINA** fallax, *Meig. Dipt.* iv. 321, 142.

a. England.

**TACHINA** Tyche, n. s. *Cinerea, capite abdomineque cano micantibus, scutello ferrugineo, palpis antennis pedibusque nigris, alis subcinereis basi albidis.*

Body black: head covered with hoary lustre, thickly clothed beneath with yellowish white hairs, beset above and in front with a

few stout black bristles, some of which fringe the sides of the face along half the length from the base; epistoma prominent: eyes pitchy, hairy: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, as long as the face; third joint linear, slender, slightly rounded at the tip, about four times the length of the second; bristle downy, not much longer than the third joint, stout for two-thirds of its length, slender from thence to the tip, its second joint twice the length of the first: chest and breast covered with a gray bloom: chest clothed with black hairs and bristles; scutcheon dark ferruginous, armed with black spines: abdomen obconical, hardly longer than the chest, adorned with hoary reflections, beset with black hairs and spines: legs black, clothed with black hairs and bristles; claws and foot-cushions black: wings slightly gray, whitish at the base; wing-ribs and veins tawny; tips of the veins pitchy; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, straight, joining the border a little before the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward and very indistinct; scales white. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. England.

*TACHINA Megaleas, n. s. Cinerea, capite abdomineque cano micantibus, huic vitta dorsali fasciisque tribus nigris, palpis fulvis, antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles; head covered with white lustre, which in some directions, and especially on the crown, has a tawny hue, clothed behind and beneath with hoary hairs, ferruginous on each side of the mouth; epistoma yellow, not prominent; sides of the face fringed with bristles; a black stripe between the eyelets and the base of the feelers: eyes ferruginous, not hairy: sucker pitchy, clothed with pale tawny hairs; palpi tawny, slender, beset with black bristles: feelers black, nearly as long as the face; second joint ferruginous at the tip; third joint much longer than the second, flat above, slightly convex beneath, obliquely truncated at the tip; bristle nearly twice the length of the third feeler-joint, its second joint full twice the length of the first; third joint stout for little more than one-fourth of the length, very slender from thence to the tip: chest and breast slightly gray; scutcheon armed with some long black spines: abdomen obconical, a little longer than the chest, having beneath a slight dark ferruginous tinge, adorned above with hoary lustre, which is interrupted by a black stripe and by three black bands; the bands are on the hind borders of the segments, and successively increase in breadth to-

wards the tip of the abdomen: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings slightly gray; wing-ribs tawny; veins pitchy, tawny towards the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, and more slightly curved inward from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight near the base, having a decided inward curve in the middle, and a much more slight outward curve near the tip; scales white, with yellow borders. Length of the body 4 lines; of the wings 7 lines.

a. England.

TACHINA Pitho, n. s. *Cinereo-fulva*, abdominis vitta dorsali et segmentorum marginibus posticis nigris, palpis fulvis, antennis pedibusque nigris, alis cinereis.

Body black, clothed with black hairs and bristles: head covered with tawny bloom, clothed beneath with gray hairs; a black stripe between the eyelets and the base of the feelers; epistoma pale tawny, not prominent; sides of the face fringed with bristles: sucker black, clothed at the tip with tawny hairs; palpi tawny, slender, beset with black bristles: eyes pitchy, not hairy: feelers black, about three-fourths of the length of the face; tip of the second joint ferruginous; third joint nearly linear, slightly increasing in depth towards the tip, which is truncated, much less than twice the length of the second joint: bristle about twice the length of the third joint, rather stout, though tapering for half the length, slender from thence to the tip, its second joint about twice the length of the first: chest covered with grayish tawny bloom: abdomen obconical, longer than the chest, covered above with grayish tawny bloom, which is interrupted by black bands, on the hind borders of the segments and by a black stripe; the bands are narrower beneath: legs black, clothed with black hairs and bristles; foot-cushions pale bright tawny: wings gray; wing-ribs dark tawny; veins black, tawny towards the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, whose continuation beyond it is slightly indicated, curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein straight, with the exception of two slight curves, one inward and near the base, the other outward and very near the tip; scales dingy white, with yellow borders. Length of the body 4 lines; of the wings  $7\frac{1}{2}$  lines.

a. England.

**TACHINA** ORASUS, n. s. *Cinerea, capitis lateribus ferrugineo maculatis, thoracis vittis tribus nigris, scutello ferrugineo, abdomine cano nigroque tessellato, palpis piceis, antennis ferrugineis, articulo 3<sup>o</sup> pedibusque nigris, alis cinereis, venis fusco marginatis.*

Body black, clothed with black hairs and bristles: head covered with dull tawny bloom, clothed behind and beneath with black hairs, pitchy and furrowed between the eyelets and the base of the feelers, adorned with a large ferruginous spot on each side of the face; epistoma not prominent, no bristles on the sides of the face: eyes pitchy, hairy: sucker black, slender, long, clothed at the tip with a few tawny hairs; palpi pale pitch-colour, long, slender, beset with black bristles: feelers hardly three-fourths of the length of the face; first and second joints dark ferruginous; third joint black, slightly concave above, equally convex beneath, rounded at the tip, about thrice the length of the second joint; bristle black; second joint rather more than twice the length of the first; third joint much longer than the third feeler-joint, stout, though tapering for full one-third of its length, slender from thence to the tip: chest covered with a dark gray bloom, which is interrupted by three indistinct black stripes, hoary on each side; scutcheon ferruginous, armed with some long black spines: abdomen nearly oval, not longer than the chest, tessellated, or adorned with hoary reflections, which are interrupted by four rows of black intervals, the latter are most conspicuous on each side: legs black, slender, rather long, clothed with black hairs and bristles: foot-cushions small, pale tawny: wings gray, brown along the borders of the veins; wing-ribs dark tawny; veins black, tawny as the base; tip cross-vein forming an angle with the fourth longitudinal vein, which projects a little beyond, curved inward near the base, slightly waving from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two large and distinct curves, one inward and near the base, the other outward and towards the tip; scales tawny, with dark borders. Length of the body 4 lines; of the wings 8 lines.

*a.* New Zealand. Presented by Dr. Sinclair.

#### Group IV. *Marshamia*, Desv. *Essai Myod.* 57.

**TACHINA** MESTOR, n. s. *Nigra, capite thoracis lateribus scutelloque ferrugineis, abdomine fulvo basi nigro, antennis ferrugineis, pedibus fulvis, tarsis nigris, alis subcinereis.*

Head ferruginous, brighter in the face, along whose sides there are no bristles; a pitchy stripe between the eyelets and the base of the feelers; underside clothed with white hairs; epistoma not pro-



minent: sucker black, clothed at the tip with short tawny hairs: eyes red, with a brassy tinge, not hairy: feelers ferruginous, very short, half the length of the face; third joint nearly elliptical, longer than the second, but not much deeper; bristle black, tapering, stout near the base, very slender towards the tip, more than twice the length of the third feeler-joint, its first and second joints of moderate and equal length: chest and breast dark gray: chest clothed with black hairs and bristles; sides slightly ferruginous; scutcheon ferruginous: abdomen tawny, rather long and narrow, nearly cylindrical, tapering towards the tip, thinly beset with short black bristles, armed on the sides of the hind borders of the segments and at the tip with black spines, black at the base, and having an interrupted black stripe from the middle to the tip of the back: legs tawny, clothed with black hairs, beset with black bristles; feet black; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins pitchy; tip cross-vein forming a right angle with the fourth longitudinal vein, which sends forth a short stump beyond it, very slightly curved along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward and very distinct, the other outward and very slight; scales pale tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. New Zealand. Presented by Dr. A. Sinclair.

### Group VI.

TACHINA Scotinus, n. s. *Cinerea, capite antico ferrugineo, abdominis lateribus tunicis, antennis pedibusque nigris, alis subcinereis basi et ad costam subfuscis.*

Body gray: head beset with black hairs and bristles, somewhat ferruginous in front; face white, its sides fringed with bristles; epistoma slightly prominent: eyes red: feelers black, as long as the face; third joint very long, full four times the length of the second, hardly concave above, more convex beneath, obliquely truncated at the tip; bristle stout for about two-thirds of its length, very slender from thence to the tip, its second joint very long, full twice the length of the first: chest clothed with black hairs, beset with long black bristles: abdomen cylindrical, rather narrow, much longer than the chest, beset with black hairs and bristles: wings slightly gray, with a brown tinge at the base and along the fore borders; wing-ribs pitchy: veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, joining the border a short distance above

the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; poisers dingy white. Length of the body  $5\frac{1}{2}$  lines; of the wings 9 lines.

a. ———? From Mr. Children's collection.

### Group VII.

TACHINA potans, *Wied. Auss. Zweif.* ii. 299, 32.

a. China.

TACHINA Melobosis, n. s. *Nigra, facie abdominisque segmentorum marginibus anticis canis, palpis antennis pedibusque nigris, alis cinereis, nervulo transverso nebuloso.*

Body black, clothed with black hairs and bristles: head ferruginous on each side of the epistoma, clothed beneath with hoary hairs; face covered with hoary bloom, its sides completely fringed with bristles; epistoma tawny, not prominent: eyes pitchy, hairy: sucker black, ferruginous and clothed with tawny hairs at the tip; palpi black, slender, beset with black bristles: feelers black, as long as the face; third joint linear, nearly six times the length of the second, almost truncated at the tip; bristle not longer than the third joint, its second joint more than twice the length of the first; third joint rather stout though tapering from the base to the tip: abdomen obconical, shining, a little longer than the chest, adorned with bands of hoary lustre along the fore borders of the segments: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings gray; wing-ribs dark tawny; veins black; little cross-vein clouded with brown; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, slightly curved inward along the whole length, joining the border a very little above the tip of the wing and close to the third longitudinal vein; lower cross-vein almost straight, but with an indistinct inward curve; scales dingy white, with yellow borders. Length of the body 2 lines; of the wings 4 lines.

a. Florida. Presented by E. Doubleday, Esq.

TACHINA Admete, n. s. *Nigra, capite abdomineque canis, hujus basi segmentorum marginibus posticis vittaque dorsali nigris, palpis fulvis, antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with white lustre, which in some aspects assumes a tawny hue, clothed behind and beneath with hoary hairs; epistoma slightly prominent; sides of the face completely fringed with black bristles;

a black stripe from the eyelets to the base of the feelers : eyes pitchy, not hairy : sucker black, clothed at the tip with tawny hairs ; palpi tawny, slender, beset with black bristles : feelers black, nearly as long as the face ; third joint not much longer than the second, flat above : very slightly convex beneath, truncated at the tip ; bristle much longer than the third joint, its second joint more than twice the length of the first ; third joint rather stout, though tapering for half its length, very slender from thence to the tip : abdomen obconical, rather narrow, very much longer than the chest ; third and following segments hoary, with the exception of the hind borders and a stripe on the back : legs black, clothed with black hairs and bristles ; foot-cushions tawny : wings slightly gray ; wing-ribs pitchy ; veins black ; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein which projects some distance beyond it, very slightly curved inward near the base, straight from thence to the tip, which joins the border at some distance above the tip of the wing ; lower cross-vein with two curves, the lower large and inward, the other outward and more slight ; scales dingy white, bordered with yellow. Length of the body  $4\frac{1}{2}$  lines ; of the wings 9 lines.

a. England.

TACHINA ——— ? Head wanting.

a. England.

TACHINA PAMESOS, n. s. *Cinerea, capite albo, abdomine cano micante, segmentorum marginibus posticis vittaque dorsali nigris, palpis fulvis, antennis pedibusque nigris, alis subcinereis ad costam spinosis.*

Body black, covered with black hairs and bristles : head covered with white bloom, excepting a black stripe between the eyelets and the base of the feelers, clothed beneath with hoary hairs ; a tawny tinge on the sides of the crown ; epistoma yellow, not prominent ; sides of the face fringed with bristles for one-fourth of the length from the base : eyes coppery, not hairy : sucker black, clothed at the tip with tawny hairs : palpi tawny, slender, beset with black bristles : feelers black, about three-fourths of the length of the face ; third joint a little longer than the second, flat above, convex beneath, very obliquely truncated at the tip ; bristle more than twice the length of the third joint, its second joint short, but longer than the first ; third joint stout for more than one-third of its length, very slender from thence to its tip ; scutcheon armed with some long black spines : abdomen obconical, a little longer than the chest, beset with black spines, adorned with hoary reflections, which are interrupted on the hind borders of the segments and by a stripe on the

back: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings light gray; wing-ribs pitchy; veins black, pitchy at the base; a spine on the fore border of the wing; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, which is unusually distant from the tip of the wing, very slightly curved inward, but here and there waving and in some parts straight, joining the border at some distance above the tip of the wing; lower cross-vein straight, very far from the wing-border; scales white, with yellow borders. Length of the body 3 lines; of the wings 5 lines.

a. England.

Div. C. Microceratæ, *Desv. Essai Myod.* 58.

Group I. Crameria, *Desv. Essai Myod.* 59.

Group II. Ernestia, *Desv. Essai Myod.* 60.

TACHINA Leocrates, n. s. *Cinerea, capite cano, abdomine fulvo vittu dorsali nigra, palpis fulvis, antennis ferrugineis, articulo 3<sup>o</sup> piceo, pedibus nigris, alis subfuscis.*

Body black, clothed with black hairs and bristles: head partly covered with hoary down; sides of the face fringed with bristles at the base; epistoma prominent: sucker black, clothed at the tip with tawny hairs; palpi tawny: eyes red, hairy: feelers dark ferruginous, much shorter than the face; third joint pitchy, flat above, slightly rounded at the tip, shorter than the second joint: chest and breast gray, thinly beset with black bristles; scutcheon armed with long black spines, tawny on the hind border: abdomen tawny, clothed with black hairs, armed with some black spines, which are mostly towards the tip, adorned with a black stripe on the back: legs black, clothed with black hairs and bristles: wings light brown; wing-ribs and veins tawny: veins pitchy towards the tips; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, which sends forth a stump beyond it, nearly straight, joining the border very near the third longitudinal vein and a little above the tip of the wing; lower cross-vein with two curves, the lower inward, the other outward; scales brown. Length of the body 4 lines; of the wings 7 lines.

a. South Africa. Presented by Dr. A. Smith.

Group III. *Brachelia*, *Desv. Essai Myod.* 61.

Group IV. *Fausta*, *Desv. Essai Myod.* 62.

Group V. *Mericia*, *Desv. Essai Myod.* 64.

Group VI. *Erigone*, *Desv. Essai Myod.* 65.

Third joint of the feelers nearly linear, very slightly convex above and beneath, almost truncate at the tip, much longer than the second joint, but less than twice its length; bristle naked; first and second joints very short; third joint stout at the base, whence it slightly tapers along half its length, and is then slender.

*TACHINA* *bibens*? *Wied. Meig. Dipt.* iv. 310, 123.

*a.* England.

*TACHINA* *Medoacus*, n. s. *Cinerea*, *capite albo micante, thoracis vittis tribus nigris, antennis pedibusque nigris, palpis fulvis, alis subcinereis.*

Body black, covered with gray bloom, beset with black hairs and bristles: head adorned with white lustre, clothed beneath with hoary hairs, a tawny stripe from the eyelets to the feelers; sides of the face fringed with bristles for one-third of the length from the base; epistoma slightly prominent: eyes dark red, not hairy: sucker black, clothed at the tip with pale tawny hairs; palpi tawny, slender, beset with black bristles: feelers black, a little shorter than the face; third joint much longer than the second, flat above, hardly convex beneath, truncated at the tip; bristle much longer than the third joint; its second joint full twice the length of the first; third stout, though tapering for more than one-third of the length, very slender from thence to the tip: chest adorned with three indistinct black stripes: scutcheon and abdomen armed with black spines: abdomen nearly elliptical, not longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings light gray; wing-ribs tawny; veins pitchy, tawny at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein nearly straight. Length of the body 3 lines; of the wings  $5\frac{1}{2}$  lines.

*a.* England.

**TACHINA** *Telestho*, n. s. *Cinerea*, capite subtus ferrugineo, abdominis segmentorum marginibus anticis cano micantibus, marginibus posticis ventrequae ferrugineis, palpis fulvis, antennis pedibusque nigris, alis subcinereis basi subfulvis.

Body black, covered with gray bloom, clothed with black hairs and bristles: head slightly covered with gray bloom, ferruginous beneath the eyes and on each side of the epistoma, which is yellow and not prominent, clothed behind and beneath with hoary hairs; face ferruginous, its sides without bristles: eyes dark red, not hairy: sucker black, beset at the tip with pale tawny hairs; palpi pale tawny, beset with black bristles: feelers black, shorter than the face; third joint much longer than the second, flat above, convex beneath, truncated at the tip; bristle less than twice the length of the third joint, its second joint longer than the first; third joint stout for more than one-third of the length, very slender from thence to the tip: scutcheon and abdomen armed with spines: abdomen obconical, a little longer than the chest, adorned with tawny reflections along the fore borders of the segments; hind borders and underside ferruginous: legs black, clothed with black hairs and bristles; foot-cushions pale tawny: wings light gray, with a tawny tinge at the base; wing-ribs dark tawny; veins black, tawny at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the fore border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the upper outward. Length of the body 6 lines; of the wings 5 lines.

a. England.

**TACHINA** *tibialis*, *Fallen*, *Musc.* 13, 23. *Meig. Dipt.* iv. 278, 67, vii. 191, 47. *Zett. Ins. Lapp.* 637, 14. *Dipt. Scand.* iii. 1057, 51. *T. æstiva*, *Meig. Dipt.* iv. 278, 68. *T. æstivalis*, *Macq. Hist. Nat. Dipt.* ii. 145, 24.

a. England.

**TACHINA** ——— ?

a. North America. Presented by the Entomological Club

**TACHINA** *Cerceis*, n. s. *Cinerea*, capite cano micante, thoracis vittis tribus nigris, abdominis fasciis cinereo fulvis, palpis fulvis, antennis pedibusque nigris, alis subcinereis.

Body black, covered with gray bloom, clothed with black hairs and bristles: head covered with hoary lustre, which has a tawny tinge on each side of the crown, whose middle part is occupied by a black

stripe between the eyelets and the feelers; underside clothed with hoary hairs; sides of the face fringed with bristles along one-third of the length from the base; epistoma not prominent: eyes red, not hairy: sucker black, clothed at the tip with pale tawny hairs; palpi tawny, beset with black bristles: feelers black, shorter than the face; second joint gray; third joint much longer than the second, flat above, slightly convex beneath, truncated at the tip; bristle full twice the length of the third joint, its second joint more than twice the length of the first; third joint stout for one-third of the length from the base, very slender from thence to the tip: chest adorned with three indistinct black stripes: scutcheon and abdomen armed with black spines: abdomen obconical, a little longer than the chest; segments grayish tawny for half the length from the base: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings light gray; wing-ribs dark tawny; veins black; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, very slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very indistinct curves, the lower inward, the upper outward. Length of the body  $2\frac{3}{4}$  lines; of the wings 5 lines.

a. England.

*TACHINA trepida*, Meig. *Dipt.* iv. 300, 106. Zett. *Dipt. Scand.* iii. 1025, 14. *Plagia trepida*, Meig. *Dipt.* vii. 201, 3.

a. England.

*TACHINA opaca?* Meig. *Dipt.* iv. 313, 128.

a. England.

*TACHINA Dydas*, n. s. *Nigro-cinerea, capite argenteo, vertice fulvo thorace vittis tribus nigris, abdominis segmentorum marginibus anticis fulvo micantibus, palpis fulvis, antennis pedibusque nigris, alis cinereis.*

Body black, slightly covered with gray bloom, clothed with black hairs and bristles, the latter especially long and stout on the scutcheon and on the abdomen: head thickly clothed behind and beneath with hoary hairs, adorned in front with silvery lustre, tawny on the crown, where there is a pitchy stripe from the eyelets to the feelers; sides of the face fringed with bristles; epistoma slightly prominent: eyes pitchy, not hairy: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers black, a little shorter than the face: tip of the second joint ferruginous; third joint very much longer than the second, flat above,

rather deep; slightly convex beneath near the tip, which is truncated; bristle rather longer than the feeler; its second joint full twice the length of the first; third joint rather stout for near half its length, very slender from thence to the tip: chest adorned with three black stripes: abdomen adorned with pale tawny reflections on the fore borders of the segments, and especially on each side: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings gray; wing-ribs pitchy; veins black; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the fore border at some distance above the tip of the wing: lower cross-vein indistinctly curved inward; scales light gray, with yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

TACHINA ———? *Erigone viridulans?* Desv. *Essai Myod.* 68, 7.  
a. France?

TACHINA radicum, Meig. *Dipt.* iv. 249, 18. Zett. *Ins. Lapp.* 142, 35. *Dipt. Scand.* iii. 1113, 109. *Musca radicum*, Fabr. *Ent. Syst.* iv. 326, 60. *Syst. Antl.* 300, 82. *Tachina lurida*, Fall. *Musc.* 26, 54.

a. England.

TACHINA nitida, Zett. *Ins. Lapp.* 646, 52. *Dipt. Scand.* iii. 1180, 183. *T. atrata*, Meig. *Dipt.* iv. 270, 52.

a. England.

TACHINA Amphiro, n. s. *Nigra, facie fulva vittis duabus piceis, scutello ferrugineo, palpis antennis pedibusque nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head clothed beneath with pale tawny hairs; epistoma yellow, not prominent: face tawny, with two pitchy stripes corresponding to the feelers, its sides fringed with bristles for one-third of the length from the base: eyes red, hairy: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, as long as the face; third joint nearly linear, rather deep, more than four times the length of the second, slightly concave above, truncated at the tip; bristle longer than the third joint, its second joint longer than the first; third joint tapering, stout for more than half its length: scutcheon dark ferruginous, armed with very long spines: abdomen obconical, not longer than the chest: legs black, clothed with black



and bristles; foot-cushions yellow: wings nearly colourless: ribs dark tawny; veins black, yellow at the base; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, a little curved inward from the base to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein nearly straight; scales white, with yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

a. England.

*TACHINA Pagasus, n. s. Nigro-cinerea, facie fulva, vittis duabus nigris, thorace vittis quatuor fulvis, abdomine flavo-cinereo, micante, basi segmentorum marginibus posticis vittaque dorsali nigris, palpis fulvis, antennis pedibusque nigris illorum articulo 2<sup>o</sup> tibiisque piceis, alis subcinereis basi subfulvis ad costam spinosis.*

Body grayish black, clothed with black hairs and bristles: head thickly clothed behind and beneath with hoary hairs; face yellow with two black stripes, corresponding to the feelers; a ferruginous stripe along each of its sides, which is fringed with bristles for one-fourth of its length from the base; epistoma yellow, not prominent; a pitchy stripe between the eyelets and the feelers: eyes red, not hairy: sucker black, clothed with tawny hairs; palpi tawny, slender, beset with black bristles: feelers black, a little shorter than the face, slightly covered with hoary bloom; second joint pitchy, ferruginous at the tip; third joint nearly linear, much longer than the second, rounded at the tip; bristle less than twice the length of the third joint, its second joint longer than the first; third joint very stout for full one-third of its length, slender from thence to the tip: chest covered with gray bloom, adorned with four dull tawny stripes: abdomen elliptical; second and following segments covered with yellowish gray lustre, their hind borders black, as is also a stripe on the back: legs black, clothed with black hairs and bristles; shanks pitchy; foot-cushions bright tawny: wings slightly gray, with a tawny tinge at the base; a spine on the fore border of each wing; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein which has a stump beyond it, curved inward near the base, straight from thence to the tip, which joins the border very near the third vein and a long way above the tip of the wing; lower cross-vein straight at both ends, but having a long inward curve in the middle; scales yellow. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. ——— ?

**TACHINA Philonis**, n. s. *Cinerea, capite albo micante, thorace pilis quatuor canis, abdomine cano vario, palpis fulvis, antennis pedibusque nigris, alis subcinereis ad costam spinosis.*

Body dark gray, clothed with black hairs and bristles: head covered with white lustre, thickly clothed behind and beneath with whitish hairs, having a tawny hue on each side of the crown, the middle part being occupied by a black stripe between the eyelets and the feelers; face gray, no bristles along its sides except at the base; epistoma not prominent: eyes red, not hairy: sucker black, pitchy, and clothed with pale tawny hairs towards the tip; palpi tawny, slender, beset with black bristles: feelers black, as long as the face; third joint much longer than the second, very slightly concave above, slightly convex beneath, truncated at the tip; bristle full twice the length of the third joint, its first joint extremely short, second joint moderately long; third joint stout for one-third of the length, slender from thence to the tip: chest adorned with four indistinct hoary stripes; sides and scutcheon hoary: scutcheon and abdomen armed with spines: abdomen black, nearly elliptical, a little longer than the chest; second segment with a large hoary triangular spot on each side; third segment hoary, with the exception of the hind border and of an imperfect stripe in the middle; fourth segment hoary towards the base: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; a bristle on the fore border of each wing; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, slightly and irregularly curved inward from the base to the tip, joining the border at some distance above the tip of the wing; lower cross-vein straight till near the tip, where it is very slightly curved outward; scales white, with yellow borders. Length of the body 4 lines; of the wings 7 lines.

a. England.

**TACHINA Nymphidius**, n. s. *Cinerea, capite plumbeo pilis albis subtus hirtissimo, thoracis vittis tribus nigris, scutello abdomineque canis, hujus segmentorum marginibus posticis vittaque dorsali nigris, palpis fulvis, antennis pedibusque nigris, alis subcinereis.*

Body black, covered with gray bloom, clothed with black hairs and bristles: head adorned with bluish white lustre, thickly clothed behind and beneath with whitish hairs, tawny on each side of the crown, the middle part being occupied by a pitchy stripe between the eyelets and the feelers: sides of the face fringed with bristles; peristoma tawny; epistoma not prominent: eyes red, not hairy: sucker black, pitchy, and clothed with tawny hairs at the tip;

palpi tawny, slender, beset with black bristles: feelers black, nearly as long as the face; tips of the first and second joints ferruginous; third joint very much longer than the second, flat above, convex beneath, slightly rounded at the tip; bristle more than twice the length of the third joint, its first joint very short; second joint rather more than twice the length of the first; third joint stout for one-third of its length, very slender from thence to the tip: chest with three indistinct black stripes: scutcheon and abdomen hoary, armed with long spines: abdomen nearly oval, a little longer than the chest; hind borders of the segments black, as is also a stripe on the back: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, hardly curved inward from the base to the tip, joining the border at some distance above the tip of the wing; lower cross-vein slightly curved inward, except at the base and at the tip, where it is straight; scales white. Length of the body  $3\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. England.

TACHINA Orga, n. s., mas. et fem. *Plumbea, capite fulvo, abdomine, mari. fulvo fem. cinereo, palpis fulvis, antennis luteis, pedibus fulvis, tarsis nigris, alis sublimpidis.*

Body black, beset with black hairs and bristles: head tawny; sides of the face fringed with bristles for half the length from the base; epistoma slightly prominent: eyes red, not hairy: sucker pitchy, tawny and clothed with tawny hairs at the tip; palpi tawny, slender, beset with black bristles: feelers orange-colour, shorter than the face; third joint linear, truncated at the tip, more than twice the length of the second joint; bristle black, much longer than the third joint, its first and second joints short, first joint tawny; second joint a little longer than the first; third joint stout for full half the length, very slender from thence to the tip: chest slate-colour, with three slender black stripes on the fore part: abdomen obconical, a little shorter than the chest, of the male tawny, of the female gray: legs tawny, clothed with black hairs and bristles; shanks darker than the thighs; feet black; foot-cushions pitchy, small: wings nearly colourless; wing-ribs tawny; veins black, pitchy at the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, curved a little inward from the base to the tip, joining the border a little before the tip of the wing; lower cross-vein hardly curved inward, almost straight; scales tawny. Length of the body 3 lines; of the wings 6 lines.

a. Sydney. From Mr. Lambert's collection.

**TACHINA Olizon, n. s.** *Canescens, capite argenteo micante, palpis fulvis, antennis pedibusque nigris, alis limpidis basi fulvis, ant. contum. p. obsis.*

Body black, shining, slightly covered with hoary bloom clothed with black hairs and bristles: front of the head adorned with silvery lustre; epistoma rather prominent: sides of the face not fringed with bristles: eyes dark red, somewhat hairy: sucker pitchy, ferruginous, and clothed with pale tawny hairs towards the tip; palpi slender, dark tawny, beset with black bristles: feelers black, shorter than the face; second joint ferruginous at the tip; third joint much longer than the second, slightly convex above and beneath, almost truncated at the tip; bristle about twice the length of the third joint; its first joint obsolete; second joint very short; third joint stout, though tapering for one-fourth of the length, very slender from thence to the tip: abdomen elliptical, a little longer and broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings colourless, tawny at the base; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming an extremely obtuse angle with the fourth longitudinal vein, quite straight, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; a stout spine on the fore border of each wing; scales white, with yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. England. \

**TACHINA Masurius, n. s.** *Cinerea, capite albo micante, palpis fulvis, antennis ferrugineis articulo 3<sup>o</sup> nigro, pedibus fulvis, tarsis nigris, alis fuscis.*

Body black, covered with gray bloom, clothed with black hairs and bristles: head adorned with white silky lustre; crown black; sides of the face fringed with bristles along half the length from the base; epistoma not prominent: eyes red, not hairy: palpi tawny, beset with black bristles: feelers ferruginous, short, not more than half the length of the face; third joint black, much longer than the second, flat above, convex beneath, truncated and rising at the tip; bristle black, more than twice the length of the third joint, its first joint obsolete; second joint very short; third joint stout for less than one-fourth of the length, slender from thence to the tip: abdomen obconical, a little longer than the chest: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions dark tawny: wings brown; wing-ribs pitchy; veins black; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, slightly

curved along the whole length, joining the border a little above the tip of the wing; lower cross-vein nearly straight but very slightly waving; scales dingy. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. North America. Presented by the Entomological Club.

*TACHINA* Pyste, n. s. *Cinerea, capite micante, abdomine cano micante basi segmentorum marginibus pisticis villaque dorsali nigris, palpis antennisque fulvis, horum articulo 3<sup>o</sup> piceo, pedibus nigris, femoribus piceis, alis subcinereis.*

Body black, covered with gray bloom, clothed with black hairs and bristles: head adorned in front with white silky lustre, clothed beneath with hoary hairs; a ferruginous stripe between the eyelets and the feelers; sides of the face without bristles; epistoma not prominent; sucker black, pitchy, and clothed with tawny hairs at the tip; palpi tawny, short, beset with black bristles: eyes brassy, hairy: feelers tawny, as long as the face; third joint pitchy above and at the tip, much longer than the second joint, slightly convex above, flat and downy beneath, somewhat rounded at the tip; bristle black, nearly twice the length of the third joint, its first joint obsolete; second joint very short; third joint rather stout for one-fourth of the length, very slender from thence to the tip: abdomen nearly oval, not longer than the chest; first segment black; second and following segments varied with hoary lustre, which prevails chiefly along the fore borders of the segments, and is interrupted on the hind borders, and by a black stripe on the back, and by a black space round the base of each bristle: legs black, clothed with black hairs and bristles; thighs and foot-cushions pitchy: wings slightly gray; wing-ribs pitchy; veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly covered along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward, longer than the other which is outward; scales white, with pale yellow borders. Length of the body 2 lines; of the wings 4 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA* Ambivius, n. s. *Nigro-cinerea, capite plumbeo, abdomine fasciis latis subinterruptis canis, palpis antennisque piceis, pedibus nigris, alis sublimpidis.*

Body black, slightly covered with gray bloom, clothed with black hairs and bristles: head covered with bluish gray lustre, having a hoary stripe between the eyelets and the feelers, and a ferru-

ginous band on each side from the eyes to the epistoma, which is yellow and slightly prominent; sides of the face fringed with bristles: eyes red, not hairy: palpi pitchy, beset with black bristles: feelers pitchy, nearly as long as the face; third joint much longer than the second, very slightly convex above and beneath, obliquely truncated at the tip; bristle not much longer than the third joint, its second joint more than twice the length of the first; third joint tapering from the base to the tip: abdomen obconical, a little shorter than the chest, adorned along the fore borders of the segments with broad bands of hoary lustre, which are partly interrupted by a black stripe on the back: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings nearly colourless; wing-ribs pitchy; veins black, pitchy at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, nearly straight, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales white, with yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. England.

TACHINA Titormus, n. s. *Cinerea, abdomine cinereo-fulvo, palpis fulvis, antennis ferrugineis articulo 3<sup>o</sup> nigro, pedibus fulvis, tarsis nigris, alis subcinereis.*

Body black, covered with gray bloom, clothed with black hairs and bristles; a pitchy stripe between the eyelets and the feelers; sides of the face without bristles, except at the base; epistoma tawny, slightly prominent: eyes dark red, hairy: sucker black, ferruginous, and clothed with pale tawny hairs at the tip; palpi tawny, beset with black bristles: feelers ferruginous, a little shorter than the face; third joint black, ferruginous at the base, a little longer than the second joint, its length hardly twice its breadth, very slightly convex above, beneath, and at the tip; bristle much more than twice the length of the third joint, its second joint long, more than twice the length of the first; third joint stout for about one-fourth of its length, very slender from thence to the tip: abdomen obconical, not longer than the chest, covered with dark grayish tawny bloom, very thinly clothed with hairs and bristles: legs tawny; feet and claws black; foot-cushions tawny: wings light gray; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, shorter, and more distinct than the

other, which is outward; scales yellowish, with yellow borders. Length of the body 4 lines; of the wings 7 lines.

a. England.

TACHINA ——— ?

Third joint slender, nearly linear, much longer than the second, but not twice its length, flat above, slightly concave beneath, almost truncate at the tip; bristle naked, thick for less than one-third of its length from the base, very slender from thence to the tip; first and second joints very short.

a. England.

Group VII. Panzeria, *Desv. Essai Myod.* 68.

Group VIII. Meriania, *Desv. Essai Myod.* 69.

TACHINA strenua? *Meig. Dipt.* iv. 249, 17. *Zett. Dipt. Scand.* iii. 1101, 98. *Nemoræa strenua*, *Macq. Hist. Nat. Dipt.* ii. 192, 14. *Meig. Dipt.* vii. 221, 12. *Meriania silvatica?* *Desv. Essai Myod.* 70, 1.

TACHINA bombylans? *Meriania bombylans?* *Desv. Essai Myod.* 70.

Third joint nearly linear, almost twice the length of the second joint, very slightly concave above, and equally convex beneath, hardly rounded at the tip; bristle naked, rather thick towards the base; first and second joints very short.

a. England.

Group IX. *Nemoræa*, *Desv. Essai Myod.* 71.

TACHINA Thyamis, n. s. *Nigra, capite albo, abdominis segmentorum marginibus posticis utrinque ferrugineis, palpis antennis pedibusque nigris, tibiis ferrugineis, alis subcinereis.*

Body black, beset with black hairs and bristles: head covered with white bloom; a pitchy stripe fringed with bristles between the eyelets and the feelers; sides of the face without bristles; epistoma not prominent: eyes pitchy, not hairy: sucker and palpi black: feelers black, almost as long as the face; third joint linear, rounded

at the tip; nearly twice the length of the second; bristle much longer than the third joint, its first joint very short; second joint long, more than twice the length of the first; third joint very stout for full one-third of its length, slender from thence to the tip: abdomen obconical, shining, a little longer than the chest; hind borders of the segments ferruginous on each side: legs black, clothed with black hairs and bristles; shanks ferruginous; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming with the fourth longitudinal vein an obtuse angle, which is near to the border of the wing, very slightly curved inward along its whole length, joining the border a little above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales yellowish, with darker borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. ———? From Mr. Children's collection.

TACHINA Clesides, n. s. *Fusco-cinerea, subaenea, palpis antennisque nigris, horum articulo 3<sup>o</sup> basi ferrugineo, pedibus nigris, alis subcinereis basi subflavis.*

Body black, with a slight brassy tinge, especially on the abdomen, covered with brownish gray down, very thickly beset with long stout black bristles: head dull; sides of the face fringed with bristles; epistoma not prominent: sucker black, clothed towards the tip with short tawny hairs; palpi black: eyes pitchy, not hairy: feelers black, very short, about half the length of the face; third joint ferruginous at the base, nearly linear, flat above, slightly convex beneath, truncated at the tip, about twice the length of the second joint: first and second joints of the bristle very short; third joint rather thick for about one-third of its length, slender from thence to the tip: chest and abdomen slightly shining: abdomen nearly elliptical, much longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings slightly gray, with a yellowish tinge at the base; wing-ribs tawny; veins pitchy; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, united with the third longitudinal vein before the tip of the latter, which joins the wing-border at some distance above its tip; lower cross-vein very slightly waving; scales pale yellow. Length of the body 3 lines; of the wings 5 lines.

a. North America. Presented by the Entomological Club.



**TACHINA** Enarette, n. s. *Cana, capite antico ferrugineo, scutello abdomineque fulvis, huic vitta nigra, palpis antennisque fulvis, horum articulo 3<sup>o</sup> piceo, pedibus nigris, alis limpidis basi subflavis.*

Head covered with a hoary bloom, black above, tawny in front; a ferruginous stripe on the crown, widening from the eyelets to the base of the feelers; epistoma yellow, very prominent; sides of the face fringed with hairs at the base: sucker pitchy; palpi tawny: eyes red, not hairy; feelers tawny, very short, hardly more than half the length of the face; third joint pitchy, tawny at the base, flat above, convex beneath, truncated at the tip, much longer than the second joint; bristle black, downy, tapering, tawny at the base, about thrice the length of the third feeler-joint; its first and second joints short, of equal length: chest covered with hoary down, thickly beset with black bristles; scutcheon tawny: abdomen not much longer than the chest, tawny, covered with hoary bloom, clothed with black hairs, beset towards the tip with black bristles, adorned with a black stripe along the back: legs black, clothed with black hairs and bristles: wings colourless, with a yellowish tinge towards the base; wing-ribs and veins tawny; tip cross-vein nearly straight, joining the longitudinal vein a little before the tip of the wing; lower cross-vein with two curves, the lower inward, the upper outward; scales white. Length of the body 4 lines; of the wings 8 lines.

a. ——— ? From Mr. Children's collection.

**TACHINA** Nysas, n. s. *Cinerea, capite scutellique margine postico fulvis, abdomine fulvo vitta dorsali maculisque utrinque nigris, palpis fulvis, antennis ferrugineis, pedibus fulvis, femoribus nigris, alis subfulvis.*

Head tawny, pale yellow in front, beset with a very few black bristles; side clothed with a few white hairs; sides of the face without bristles except at the base; epistoma prominent: sucker black; palpi tawny, long, slender, beset with black bristles: eyes red, not hairy: feelers ferruginous, very short, not so long as the face; third joint a little longer than the second, nearly linear, flat above, slightly convex beneath, obliquely truncated at the tip; bristle black, tapering, slender, thrice the length of the third joint, its first and second joints very short: chest and breast dark gray; chest beset with black hairs and bristles; hind border of the scutcheon tawny; breast partly clothed with tawny hairs: abdomen tawny, clothed with black hairs, beset with a few black bristles on the hind borders of the segments and towards the tip, adorned with a black

stripe on the back, and with a row of black spots on each side: legs tawny, clothed with black hairs and bristles; feet towards the tips and thighs black; foot-cushions tawny: wings with a slight tawny tinge, which disappears on the hind border; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, which sends forth a stump beyond it, nearly straight, joining the border a little above the tip of the wing; lower cross-vein with two curves, the lower slight and inward, the upper larger and outward; scales whitish, tinged and bordered with yellow. Length of the body 4 lines; of the wings  $7\frac{1}{2}$  lines.

a. ——— ?

TACHINA Petalus, n. s. *Cana, capite abdomineque fulvis, huic maculis utrinque tribus nigris, thorace purpureo cyaneoque vittato, palpis antennis pedibusque fulvis, alis subfulvis.*

Head tawny, covered with golden down, having a hoary tinge on each side of the crown; face whitish, its sides fringed with bristles towards the base; epistoma prominent; sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with a few black bristles: eyes red, not hairy: feelers tawny, shorter than the face; third joint nearly linear, flat above, slightly convex beneath, obliquely truncated at the tip, about twice the length of the second joint; bristle pitchy, downy, very slender, nearly thrice the length of the third joint, tawny at the base, its first and second joints very short; third joint rather stout near the base, very slender from thence to the tip: chest and breast hoary: chest flat, clothed with black hairs and bristles, adorned with purple and blue reflections, which are arranged in stripes; hind border of the scutcheon tawny: breast adorned with a metallic lustre, partly clothed with tawny hairs: abdomen tawny, shining, beset with black hairs and with a few black bristles, adorned with three black spots on each side: legs tawny, clothed with black hairs and bristles; feet darker towards the tips; tips of the claws black: wings with a slight tawny tinge, which is darkest along the fore border; wing-ribs tawny; veins pitchy; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, nearly straight, joining the border of the wing at a short distance above the tip; lower cross-vein with two curves, the lower largest and inward, the upper outward and more slight. Length of the body 4 lines; of the wings 7 lines.

a. ——— ?

**TACHINA** trixoides, n. s. *Cinerea, capite ferrugineo, thorace vittis quinque nigris, abdomine nigro-piceo cano micante, antennis rufis, pedibus nigris, alis subcinereis.*

Body black: head pale ferruginous, black above and behind, beset with a few black hairs and bristles, clothed beneath with pale tawny hairs; sides of the face without bristles except at the base; epistoma not prominent: eyes pitchy, not hairy; sucker ferruginous, clothed with short pale tawny hairs: feelers pale red, much shorter than the face; second joint very short; third joint short, but longer than the second, nearly linear, rounded at the tip; bristle black, downy, tapering; first and second joints short: chest gray, clothed with black hairs and bristles, adorned with five indistinct black stripes; scutcheon covered with long black spines: abdomen pitchy-black, with hoary reflections, clothed with black hairs, armed towards the tip with some long black spines: legs black, clothed with black hairs and bristles; foot-cushions pale tawny: wings light gray; wing-ribs tawny; veins pitchy, pale towards the base; tip cross-vein forming a right angle with the fourth longitudinal vein, which sends forth a stump beyond it, much curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein curved inward near the base, almost straight from thence to the tip; scales white, with pale yellow borders. Length of the body 6 lines; of the wings 11 lines.

a. Georgia.

**TACHINA** Bura, n. s. *Fulva, thoracis disco abdomineque nigris, hoc maculis fasciisque albis ornato illo antice albo vittato, palpis antennis pedibusque fulvis, alis fusco-cinereis basi fulvis.*

Head bright tawny, rather darker on the crown, clothed beneath with tawny hairs, and above with some black hairs, beset on each side of the mouth with a few black bristles; sides of the face without bristles except at the base; epistoma prominent; eyes pitchy, not hairy; palpi tawny, slender, clothed with tawny hairs: feelers bright reddish tawny, much shorter than the face; second joint linear, slender, almost truncated at the tip, longer than the second joint; bristle black, tapering, nearly twice the length of the third joint, its second joint short, but longer than the first: chest and breast tawny, clothed with tawny hairs; disk of the chest black, clothed with short black hairs, adorned with white reflections which form four short stripes on the fore part: abdomen deep black, clothed with black hairs, its back adorned near the base with two white spots, and from the middle to the tip with short connected

white bands; its underside adorned on each side with a broad irregular white stripe; these two stripes send forth short bands, which appear as spots on the sides of the back; legs tawny, clothed with black hairs and bristles; feet black towards the tips; claws tawny, with black tips; foot-cushions yellow: wings brownish gray, bright tawny at the base: there is a white interval between the above colours and for half the length of the wing along the fore border; wing-ribs and veins bright tawny, the latter pitchy in the gray part of the wing; tip cross-vein forming a hardly obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the border considerably above the tip of the wing; lower cross-vein with two irregular and very slight curves, the lower inward, the other outward and indistinct; scales tawny. Length of the body 6 lines; of the wings 14 lines.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

b. New Holland. From the Rev. J. Wenham's collection.

*TACHINA* Cassotis, n. s. *Fulva, capite flavo, abdomine ferrugineo macula fasciæque nigris, palpis fulvis, antennis luteis, pedibus fulvis, tarsis nigris, alis limpidis.*

Body clothed with black hairs and bristles: head yellow, beset with a very few bristles, clothed beneath with a few pale yellow hairs; a single bristle on each side of the face; epistoma prominent; eyes pitchy, not hairy: sucker black; palpi tawny, beset with black bristles: feelers pale orange, shorter than the face; third joint full thrice the length of the second; rather slender, flat above, slightly convex beneath, rounded at the tip; bristle pitchy, tawny at the base; first and second joints very short; third joint stout at the base, slender from thence to the tip, more than twice the length of the third feeler-joint: chest tawny, dull; breast paler: abdomen ferruginous, a little longer than the chest; a black stripe on the back, disappearing at the base; hind border of the third segment black: legs tawny, clothed with black hairs and bristles; feet black, tawny at the base; foot-cushions tawny: wings colourless; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, nearly straight, joining the border a little above the tip of the wing; lower cross-vein with two distinct curves, the lower inward, the other longer and outward; scales pale yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

TACHINA Segonax, n. s. *Nigra, fulvo tecta, capite aureo, abdominis lateribus fulvis, palpis fulvis, antennis pedibusque nigris, alis cinereis basi et ad costam flavis.*

Body black, clothed with black hairs and bristles: head golden, paler on the face and beneath; epistoma slightly prominent; sides of the face without bristles except at the base: eyes dark red, not hairy: palpi tawny: feelers black, much shorter than the face; third joint about thrice the length of the second, rather deep, flat above, slightly convex beneath, truncated at the tip; bristle near twice the length of the third joint; first joint very short; second joint long; third joint rather stout though tapering from the base to the tip: chest covered with tawny bloom: abdomen elliptical, tawny, not longer than the chest; base, tip, and a middle stripe black, covered with tawny bloom: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings gray, yellowish at the base and along half the length of the fore border; wing-ribs and veins tawny; veins black towards the tips; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, very slightly curved inward, joining the border very near the tip of the wing; lower cross-vein with two distinct curves, the lower inward, the other outward. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. ———? From Mr. Children's collection.

Div. D. Thryptoceratæ, Desv. *Essai Myod.* 82.

Group I. Germaria, Desv. *Essai Myod.* 83.

Group II. Osmæa, Desv. *Essai Myod.* 84.

Group III. Neæra, Desv. *Essai Myod.* 84.

TACHINA laticornis? Meig. *Dipt.* iv. 351, 194. Thryptocera laticornis? Macq. *Hist. Nat. Dipt.* ii. 89, 4. *Ann. Soc. Ent. France, 2me série*, iii. 286, 2, pl. 6, f. 5.

a. England. Presented by F. Walker, Esq.

Group IV. Actia, Desv. *Essai Myod.* 85.

Group V. Ceromya, Desv. *Essai Myod.* 86.

Group VI. Ceranthia, Desv. *Essai Myod.* 88.

Group VII. Aphria, Desv. *Essai Myod.* 89.

**TACHINA Broteas, n. s.**

Allied to the *Macromydae*. Body black, clothed with black hairs and bristles: head pitchy on the crown; sides of the face yellow, without bristles; epistoma not prominent: eyes pitchy, not hairy: sucker pitchy; palpi tawny: feelers black, as long as the face; third joint deep, slightly convex above, somewhat rounded at the tip, more than four times the length of the second; bristle hardly longer than the third joint, its first joint very short, second joint very long, more than twice the length of the first, forming a very slight angle with the third, which is stout, and tapers from the base to the tip: chest dull: abdomen oval, shining, a little longer than the chest, adorned on the fore borders of the segments with almost interrupted white bands: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a very obtuse angle or rather curve with the fourth longitudinal vein, almost straight, joining the border at the tip of the wing and very near the third longitudinal vein; lower cross-vein with a very indistinct inward curve near the base, almost straight from thence to the tip; scales yellowish, with darker borders. Length of the body 2 lines; of the wings 4 lines.

a. England.

Div. E. *Erythroceratæ*, *Desv. Ann. Soc. Ent. France*, 2me série, vi. 429.

Group I. *Phryno*, *Desv. Ann. Soc. Ent. France*, 2me série, vi. 432.

Group II. *Eurigaster*, *Macq. Desv. Ann. Soc. Ent. France*, 2me série, vi. 434.

Group III. *Erythroceræ*, *Desv. Ann. Soc. Ent. France*, 2me série, vi. 436.

Group IV. *Curtisia*, *Desv. Ann. Soc. Ent. France*, 2me série, vi. 440.

Group V. *Hebia*, *Desv. Ann. Soc. Ent. France*, 2me série, vi. 441.

Group VI. *Roeselia*, *Desv. Ann. Soc. Ent. France*, 2me série, vi. 443.

Div. F. Graosomæ, *Desv. Ann. Soc. Ent. France, 2me série*, vi. 448.

Group I. Myobia, *Desv. Ann. Soc. Ent. France, 2me série*, vi. 454.

TACHINA longipes? *Meig. Dipt.* iv. 341, 176.

a. ———?

Group II. Leskia, *Desv. Ann. Soc. Ent. France, 2me série*, vi. 460.

Group III. Solieria, *Desv. Ann. Soc. Ent. France, 2me série*, vi. 461.

Group IV. Orillia, *Desv. Ann. Soc. Ent. France, 2me série*, vi. 474.

Group V. Fischeria, *Desv. Ann. Soc. Ent. France, 2me série*, vi. 477.

TACHINA pacifica? *Meig. Dipt.* iv. 342, 178.

a. England. Presented by F. Walker, Esq.

TACHINA spreta, *Meig. Dipt.* iv. 343, 179.

a. England.

TACHINA plebeia? *Fall. Musc.* 13, 22. *Meig. Dipt.* iv. 343, 180.

a. England. Presented by F. Walker, Esq.

TACHINA vetusta? *Meig. Dipt.* iv. 347, 187.

a. England. Presented by F. Walker, Esq.

Group VI. Melia, *Desv. Ann. Soc. Ent. France, 2me série*, vi.

Div. G. Faunidæ, *Desv. Essai Myod.* 102.

Group I. Latreillia, *Desv. Essai Myod.* 104.

TACHINA bifasciata, *Wied. Auss. Zweif.* ii. 305, 44. *Musca bifasciata*, *Fabr. Syst. Ent.* 777, 19. *Ent. Syst.* iv. 325, 53. *Syst. Antl.* 299, 78. *Ocyptera bifasciata*, *Latr. Dict. d'Hist. Nat.* xxiv. 195, 373. *Latreillia bifasciata*, *Desv. Essai Myod.* 104, 1. *Nemoræa bifasciata*, *Macq. Hist. Nat. Dipt.* ii. 104, 19. *Belvosia bicincta*, *Desv. Essai Myod.* 103, 1. *B. bifasciata*, *Macq. Dipt. Exot.* ii. 3, 57, 1, pl. 6, f. 2.

a. Brazil. From Mrs. Noel's collection.

b. Jamaica. From Mr. Gosse's collection.

c. ———?

**TACHINA Dorycus**, n. s. *Fulva, capite aureo, pectore cano, abdomine nigro vittato, palpis antennisque fulvis, horum articulo 3<sup>o</sup> piceo, pedibus nigris, tibiis fulvis, alis subcinereis basi fulvis.*

Head gold-colour and beset with some black bristles above, whitish and clothed with white hairs beneath; epistoma not prominent; sides of the face completely fringed with hairs: eyes pitchy, not hairy: sucker black, pitchy and clothed with tawny hairs towards the tip; palpi tawny, long, slender, beset with short black bristles: feelers dark tawny, as long as the face; third joint linear, slender, very long, pitchy, tawny at the base, full six times the length of the second joint; bristle black, stout, tapering, hardly longer than the third feeler-joint, its first and second joints short, of equal length: chest thickly covered with pale tawny bloom, clothed with tawny hairs, beset with black bristles; breast hoary, partly clothed with hoary hairs: abdomen conical, a little longer than the abdomen, tawny, with paler reflections towards the tip, clothed with black hairs and bristles, adorned with a black stripe, which widens across the whole breadth before the tip: legs black, clothed with black hairs and bristles; thighs covered beneath with hoary bloom: shanks dark tawny; foot-cushions tawny: wings slightly gray, tawny at the base, and with a tawny tinge along half the length of the fore border; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very slightly curve inward, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower short and inward, the upper outward and longer; scales yellowish white. Length of the body 5½ lines; of the wings 9 lines.

a. Ukraine. Presented by Dr. Dowler.

**TACHINA Psamathe**, n. s. *Nigra, capite fulvo, thorace cano quadri-vittato, abdomine maculis lateralibus trigonis ornato, palpis fulvis, antennis pedibusque nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head with a pale tawny silk-like covering, hoary and thickly clothed with hoary hairs behind and beneath; a black stripe passes from the eyelets to the feelers, and is fringed with black spines, which extend beyond it in a line parallel to the face as far as one-half of the length of the latter; sides of the face fringed with bristles at the base; epistoma slightly prominent: eyes red, hairy: sucker black, clothed with black hairs, and at the tip with tawny hairs; palpi long, slender, tawny, beset with black bristles: feelers black, as long as the face; second joint ferruginous at the tip; third joint nearly four times the length of the second, slender, linear, very slightly concave above,



and equally convex beneath, obliquely truncated at the tip; bristle less than twice the length of the third joint, its first joint extremely short; second joint moderately long; third joint stout for less than half the length, slender from thence to the tip: chest adorned with four hoary stripes; breast hoary; scutcheon ferruginous, armed at the tip with some long black spines: abdomen pitchy-black, obconical, longer than the chest; a large triangular hoary spot on each side of the fore border of every segment: legs black, tinged with gray, clothed with black hairs and bristles; foot-cushions tawny: wings nearly colourless; wing-ribs tawny; veins pitchy, tawny towards the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, stout at the base, then curved inward for a short space, and thence straight to the tip, joining the fore border at a long distance from the tip of the wing; lower cross-vein with two curves, the lower inward, longer than the other which is outward; scales white, with pale yellow borders. Length of the body 6 lines; of the wings 10 lines.

a. Madras. Presented by Walter Elliot, Esq.

Group III. *Salia*, Desv. *Essai Myod.* 108.

Group IV. *Athrycia*, Desv. *Essai Myod.* 111.

Group V. *Lydella*, Desv. *Essai Myod.* 112.

*TACHINA funesta*? Meig. *Dipt.* iv. 346, 185. Zett. *Dipt. Scand.* iii. 1175, 178. *Medoria funesta*, Meig. *Dipt.* vii. 203, 1.

a. ———?

*TACHINA* Arcos, n. s. *Nigro-ænea, nitens, capite nigro, palpis antennis pedibusque nigris, alis limpidis basi fulvis.*

Body brassy black, shining, clothed with black hairs and bristles: head black, dull; epistoma not prominent; sides of the face without bristles: eyes bright red, hairy: sucker and palpi black: feelers black, as long as the face; tip of the second joint ferruginous; third joint long, slender, linear, about four times the length of the second; bristle stout, tapering, not much longer than the third joint: abdomen nearly elliptical, a little longer than the chest: legs black, clothed with black hairs and bristles: wings colourless, tawny at the base; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a very obtuse angle or rather curve with the fourth longitudinal vein, slightly curved inward, joining the border a very little above the tip of the wing; lower cross-vein very slightly curved inward near the base, almost straight from thence to

the tip ; scales white, with yellow borders. Length of the body 3 lines ; of the wings  $5\frac{1}{2}$  lines.

a. North America. Presented by the Entomological Club.

*TACHINA* Panætius, n. s. *Cinereo-fulva, capite pallido, thorace nigro quadrivittato, scutello abdomineque piceis hoc cano micante, palpis fulvis, antennis pedibusque nigris, alis subcinereis.*

Body beset with black hairs and bristles : head pale tawny, silky, yellowish white in front, thickly clothed behind and beneath with pale dull yellow hairs ; sides of the face fringed with bristles along half the length from the base ; epistoma rather prominent : eyes red, not hairy : snoker black, clothed at the tip with tawny hairs ; palpi tawny, long, slender, beset with black bristles : feelers black, as long as the face ; tips of the first and second joints ferruginous ; third joint nearly linear, more than twice the length of the second joint, flat above, very slightly concave beneath, almost truncated at the tip ; bristle black, nearly twice the length of the second joint ; its first joint obsolete ; second joint very short ; third joint stout for about one-third of the length, very slender from thence to the tip : chest covered with grayish tawny bloom, which is interrupted by four slender black stripes ; scutcheon pitchy, armed with long black spines : abdomen pitchy, nearly oval, not longer than the chest ; fore borders of the segments especially on each side and nearly the whole of the last segment adorned with hoary lustre which has a slight yellowish tinge : legs black, clothed with black hairs and bristles ; claws towards the base and foot-cushions tawny : wings slightly gray ; wing-ribs dark tawny ; veins black, tawny towards the base ; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, which projects a little beyond it, very slightly curved inward, joining the border at some distance above the tip of the wing ; lower cross-vein very slightly curved inward ; scales yellowish white. Length of the body 5 lines ; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA* Mella, n. s. *Cana, capite aureo, thorace vittis quatuor nigris, abdominis segmento 2<sup>o</sup> maculis duabus ferrugineis, palpis fulvis, antennis pedibusque nigris, alis subcinereis basi albidis.*

• Body black, clothed with black hairs and bristles : head covered with golden bloom, pitchy about the eyelets, and having a velvet-like black stripe from thence to the feelers, thickly clothed beneath with hoary hairs, adorned in front with silky-white lustre ; a ferruginous band on each side between the eyes and the epistoma, which

is yellow and hardly prominent; sides of the face fringed with bristles on half the length from the base: eyes red, not hairy: sucker black, pitchy, and clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: feelers black, as long as the face; tip of the second joint ferruginous; third joint long, linear, truncated at the tip, about thrice the length of the second joint; bristle much longer than the third joint, its first joint very short, second joint moderately long, third joint stout for more than one-third of the length, very slender from thence to the tip: chest adorned with four slender black stripes; scutcheon tawny: abdomen obconical, a little longer than the chest, adorned with hoary lustre, which has a yellowish tinge; this lustre disappears on the hind borders of the segments, which are armed with long black spines; a large ferruginous spot on each side of the second segment: legs black, clothed with black hairs and bristles; claws pitchy, with black tips; foot-cushions tawny: wings slightly gray, whitish at the base; wing-ribs tawny; veins black, tawny towards the base; four spines on the third longitudinal vein; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein which projects far beyond it, very slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein very slightly curved inward; scales white, with yellow borders. Length of the body 5 lines; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA* LUCAGUS, n. s. *Cinerea, capite argenteo, thorace nigro quadrivittato, abdomine fasciis interruptis canis, palpis fulvis, antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles: head adorned in front with silvery lustre, clothed beneath with a few hoary hairs; crown tawny about the eyelets and on each side, the middle part being occupied by a black stripe between the eyelets and the feelers; no bristles on the sides of the face; epistoma hardly prominent: eyes red, not hairy: sucker black, clothed at the tip with pale tawny hairs; palpi tawny, slender, beset with black bristles: feelers black, as long as the face; tips of the first and of the second joints ferruginous; third joint linear, slender, more than twice the length of the second, nearly truncated at the tip; bristle much longer than the third joint, its first joint obsolete; second joint short; third joint rather stout though tapering for nearly half its length, very slender from thence to the tip: chest covered with gray bloom, which is interrupted by four slender black stripes: abdomen obconical, not longer than the chest, adorned on the fore borders of the segments

with broad irregular bands of hoary lustre, which has a yellowish tinge, is chiefly prevalent on each side, and is interrupted on the back by a slender black stripe: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings gray; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, very slightly curved inward, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower slight and inward, the upper outward and almost imperceptible; scales dingy white. Length of the body 3 lines; of the wings  $5\frac{1}{2}$  lines.

a. China. Presented by G. T. Lay, Esq.

*TACHINA* *Medapis*, n. s. *Cano-fulva, gracilis, capite antice albido, thorace subvittato, palpis fulvis, antennis rufis, articulo 3<sup>o</sup> ferrugineo, pedibus fulvis, tarsis nigris, alis cinereis angustis basi subfulvis.*

Body slender, pale tawny, with a hoary tinge, not shining, thinly clothed with black hairs and bristles: head whitish in front; no bristles on the tawny sides of the face; epistoma not prominent: eyes bright red, not hairy: sucker black, clothed at the tip with pale hairs; palpi tawny, long, slender, beset with black bristles: feelers pale red, nearly as long as the face; third joint ferruginous, linear, red at the base, rounded at the tip, about four times the length of the second joint; bristle more than twice the length of the third joint, its first and second joints very short, third joint tapering from the base to the tip: chest indistinctly striped with darker colour: abdomen elliptical, a little longer than the chest: legs tawny, rather long and slender, clothed with black hairs and bristles; shanks darker than the thighs; feet black: wings gray, rather long and narrow, with a tawny tinge at the base; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming an extremely obtuse angle with the fourth longitudinal vein, hardly curved inward, nearly straight, joining the border a very little above the tip of the wing; lower cross-vein nearly straight; scales white, with yellow borders. Length of the body 3 lines; of the wings  $6\frac{1}{2}$  lines.

a. Upsal, Sweden. Presented by the Entomological Club.

Group VI. *Olinda*, *Desv. Essai Myod.* 116.

Group VII. *Platymya*, *Desv. Essai Myod.* 116.

Group VIII. *Phorinia*, *Desv. Essai Myod.* 118.

Group IX. *Ophelia*, *Desv. Essai Myod.* 120.

**TACHINA** *Xychus*, n. s. *Cinerea, capite argenteo, thorace vittis quatuor nigris, abdominis lateribus cano micantibus, palpis fulvis, antennis pedibusque nigris, alis sublimpidis.*

Body black, covered with gray bloom, clothed with black hairs and bristles: head adorned with silvery lustre in front, clothed beneath with some hoary hairs, tawny about the eyelets, and with a pitchy stripe from thence to the feelers; epistoma not prominent; sides of the face completely fringed with bristles: eyes red, not hairy: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers black, as long as the face; third joint linear, very long, full six times the length of the second, truncated at the tip; bristle not longer than the third joint, its first joint obsolete; second joint very short; third joint stout for nearly half the length, very slender from thence to the tip: chest adorned with four black stripes: abdomen obconical, a little shorter than the chest; fore borders of the segments adorned on each side with patches of hoary lustre: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings nearly colourless; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, slightly curved inward, joining the border at some distance above the tip of the wing; lower cross-vein nearly straight; scales white. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Jamaica. From Mr. Gosse's collection.

Group X. *Blondelia*, *Desv. Essai Myod.* 122.

Group XI. *Rhinomya*, *Desv. Essai Myod.* 123.

Group XII. *Lydina*, *Desv. Essai Myod.* 124.

**TACHINA** *nitida*? *Lydina nitida*? *Desv. Essai Myod.* 124, 1.  
a. Upsal, Sweden. Presented by the Entomological Club.

Group XIII. *Erynnia*, *Desv. Essai Myod.* 125.

Group XIV. *Wayneria*, *Desv. Essai Myod.* 126.

Group XV. *Araba*, *Desv. Essai Myod.* 127.

Group XVI. *Phorocera*, *Desv. Essai Myod.* 131.

*TACHINA* Diniele, n. s. *Nigra, scutelli apice ferrugineo, palpi antennis pedibusque nigris, alis subcinereis basi subfuscis.*

Body black, clothed with black hairs and bristles: head clothed beneath with hoary hairs: sides of the face ferruginous, fringed with bristles; epistoma yellow, hardly prominent; palpi black: feelers black, as long as the face; third joint linear, narrow, almost truncated at the tip, nearly four times the length of the second; bristle longer than the third joint, its first joint obsolete; second short, stout for full one-third of the length, slender from thence to the tip: eyes dark red, hairy: tip of the scutcheon dark ferruginous; abdomen obconical, not longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions pale yellow: wings slightly gray, pale brown at the base; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the border at a short distance above the tip of the wing; lower cross-vein straight, with the exception of a very slight inward curve near the base, and an almost imperceptible outward curve near the tip; scales white, with pale tawny borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

a. England.

*TACHINA* Thyamis, n. s. *Nigro-cinerea capite argenteo micante, thorace trivittato, abdomine basi nigro segmenti 2<sup>o</sup> lateribus fulvo maculatis, antennis pedibusque nigris, alis fulvis apicibus marginibusque posticis subcinereis.*

Body black, covered with hoary bloom, clothed with black hairs and bristles: front of the head adorned with silvery lustre; epistoma not prominent; sides of the face without bristles; mouth and palpi black: eyes dark red, not hairy: feelers black, nearly as long as the face; third joint rather stout, linear, rounded at the tip, less than twice the length of the second; bristle about twice the length of the third joint; first and second joints of moderate length; third stout and spindle-shaped for more than one-third of the length from the base, very slender from thence to the tip: chest with three indistinct broad black stripes: abdomen elliptical, a little longer than the chest, black towards the base; a large dull tawny spot on each side of the second segment: legs black, clothed with black hairs and bristles; shanks dark tawny: wings slightly gray, tawny at the base on the fore border, and along the sides of the veins; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, slightly curved inward, joining the border a little above the tip of

the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales yellowish with darker borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. ———? From Mr. Children's collection.

TACHINA ———?

a. New Holland. Presented by the Entomological Club.

TACHINA Sosicles, n. s. *Nigra, abdomine flavo-cano, segmentorum marginibus posticis vitta dorsali palpis antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles; sides of the face without bristles; epistoma not prominent: mouth, palpi, and feelers black; feelers as long as the face; third joint nearly linear, full twice the length of the second, flat above, slightly convex beneath, obliquely truncated at the tip; bristle a little longer than the third joint, its first joint obsolete; second short; third stout for full one-third of the length, slender from thence to the tip; abdomen obconical, not longer than the chest, adorned with yellowish hoary reflections, which are interrupted on the hind borders of the segments, and by a middle stripe: legs black, clothed with black hairs and bristles: wings gray; wing-ribs and veins black; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein straight; scales dingy, with whitish tawny borders. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

a ———?

TACHINA luctuosa, Meig. Dipt. iv. 347, 185. Medina luctuosa, Desv. Essai Myod. 140, 6.

a. England.

TACHINA Zebina, n. s. *Nigro-cinerea, capite aureo, thorace vittis quatuor nigris, scutello ferrugineo, abdomine fasciis canis ornato, palpis ferrugineis, antennis pedibusque nigris, alis cinereis, basi fuscis.*

Body broad, black, slightly curved with gray bloom, clothed with black hairs and bristles: head golden, velvet-like, thickly clothed behind and beneath with pale yellow hairs, tawny and partly covered with a hoary bloom beneath, having a tawny hue on the sides of the crown, the middle part being occupied by a black stripe, which extends from the eyelets to the feelers; face whitish, its sides

without bristles; epistoma yellow, slightly prominent; eyes red, not hairy; sucker ferruginous, and clothed with tawny hairs towards the tip; palpi ferruginous, beset with black bristles: feelers black, a little shorter than the face; tips of the first and second joints ferruginous; third linear, more than twice the length of the second, truncated at the tip; bristle more than twice the length of the third joint, its first joint very short, second short, third gradually tapering from the base to the tip, where it becomes extremely slender: chest adorned with four slender black stripes; scutcheon ferruginous: abdomen elliptical, not longer than the chest, adorned with broad hoary bands along the fore borders of the segments: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings gray, brown at the base: wing-ribs and veins pitchy; tip cross-vein forming an almost right angle with the fourth longitudinal vein, very slightly curved inward, joining the border above the tip of the wing; lower cross-vein slightly curved inward near the base, almost straight from thence to the tip; scales gray. Length of the body 7 lines; of the wings 14 lines.

*a.* North Bengal. From Miss Campbell's collection.

*TACHINA nigricornis*, *Wied. Auss. Zweif.* ii. 322, 76. *Musca nigricornis*, *Fabr. Ent. Syst.* iv. 331, 81. *Syst. Anth.* 305, 104.

*a.* East Indies. From Archdeacon Clerk's collection.

*TACHINA* *Quechestus*, n. s. *Cana, capite subtus pilis albis dense vestito, thorace vittis quatuor cinereis, scutello ferrugineo, abdomine albo vitta dorsali fasciisque nigris, palpis fulvis, antennis nigris, alis sublimpidis.*

Body black, clothed with black hairs, and with a few black bristles: head covered with white bloom, thickly clothed behind and beneath with white hairs; a pitchy stripe between the eyelets and the feelers; sides of the face without bristles; epistoma yellow, slightly prominent: eyes pitchy, hairy: sucker black; palpi tawny, slender, beset with black bristles: feelers black, as long as the face; tips of the first and second joints ferruginous; third very long, nearly linear, but slightly increasing in breadth from the base to the tip, which is truncated above, and rounded beneath, about four times the length of the second joint: chest covered with hoary bloom, which is interrupted by four gray stripes; scutcheon ferruginous: abdomen white, obconical, shorter than the chest; hind borders of the segments black; an imperfect stripe along the back: wings nearly colourless, whitish at the base; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming with the fourth longitudinal vein a slightly obtuse angle, very remote from the border,



slightly curved inward near the base, straight from thence to the tip; lower cross-vein with two curves, the lower slight and inward, the other outward and more slight; scales white, very large. Length of the body 5 lines; of the wings 10 lines.

a. ———? From Mr. Children's collection.

*TACHINA Verritus*, n. s. *Nigra, capite flavo, thorace fulvescente, pectore cano, abdomine fasciis fulvis micante, palpis antennis pedibusque fulvis, alis cinereis, basi et ad costam fuscis.*

Body black, clothed with black hairs and bristles: head yellow, velvet-like, clothed beneath with pale yellow hairs; a black stripe between the eyelets and the feelers; face whitish, its sides fringed with bristles along three-fourths of the length from the base; epistoma yellow, slightly prominent: eyes red, hairy: sucker pitchy, beset with tawny hairs towards the tips; palpi black, beset with black bristles: feelers black, as long as the face; third joint six times the length of the second, linear, or very slightly increasing in depth from the base to the tip, which is slightly rounded; bristle more than twice the length of the third joint, its first joint obsolete, second very short; third rather stout for about one-third of its length, very slender from thence to the tip: chest covered with tawny bloom; breast more hoary: abdomen obconical, a little longer than the chest, adorned with broad bands of tawny lustre along the fore borders of the segments; first segment quite black: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings gray, brownish at the base and along the fore borders; wing-ribs pitchy; veins black, tawny at the base; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales white with yellow borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 7 lines.

a. South Africa. Presented by Dr. A. Smith.

*TACHINA Nepia*, n. s. *Cana, thorace rittis tribus nigris, scutello fulvo, abdomine nigro fasciis canis ornato, palpis fulvis, antennis pedibusque nigris, alis cinereis.*

Body black, covered with hoary bloom, clothed with black hairs and bristles: head covered with white lustre, thickly clothed beneath with pale tawny hairs, adorned with a broad pitchy stripe between the eyelets and the feelers; a ferruginous band on each side between the eyes and the mouth; sides of the face fringed with bristles along

nearly the whole length from the base : epistoma not prominent : eyes red, not hairy ; sucker black, clothed with tawny hairs ; palpi tawny, beset with black bristles ; feelers black, as long as the face ; third joint linear, very long, obliquely truncated at the tip, about six times the length of the second joint ; bristle a little longer than the third joint, its first and second joints very short ; third stout, tapering along the whole length : chest adorned with three black stripes ; scutcheon tawny, armed with long black spines ; abdomen obconical, not longer than the chest, thickly armed with long black spines ; hind borders of the segments irregularly hoary, with tawny tinge towards the tip : legs black, clothed with black hairs and bristles ; foot-cushions tawny ; wings gray ; wing-ribs pitchy ; veins black, tawny towards the base ; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, straight, joining the third longitudinal vein far above the tip of the wing ; lower cross-vein with three slight curves, the lowest short and outward, the second short and inward, the third long and outward ; scales white. Length of the body  $5\frac{1}{2}$  lines ; of the wings 11 lines.

a. ——— ?

TACHINA evolans, *Wied. Auss. Zweif.* ii. 321, 73.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

TACHINA ——— ?

a. South Africa. Presented by Dr. A. Smith.

TACHINA Olmus, n. s. *Aurea, thorace nigro quadrivittato, abdomine nigro fasciato, palpis fulvis, antennis pedibusque nigris, alis limpidis ad costam fuscis.*

Body black, clothed with black hairs and bristles : head golden, paler along the outer borders of the eyes ; a black stripe from the eyelets to the feelers : epistoma not prominent ; sides of the face without bristles, except at the base : eyes red : sucker pitchy ; palpi tawny, clothed with black hairs : feelers black, as long as the face ; third joint about four times the length of the second, linear, narrow, truncated at the tip ; bristle nearly twice the length of the third joint, its first joint obsolete ; second extremely short ; third stout for less than one-third of the length, slender from thence to the tip : chest and breast covered with golden bloom : chest adorned with four interrupted black stripes : abdomen nearly elliptical, not longer than the chest ; fore borders of the segments golden : legs black, clothed with black hairs and bristles ; foot-cushions tawny : wings colourless, brown along the fore borders till near the tips ; wing-ribs and veins pitchy ; veins black towards the tips ; tip cross-vein forming a

slightly obtuse angle with the fourth longitudinal vein, having a hardly perceptible curve from the base to the tip, joining the border a little before the tip of the wing; lower cross-vein much curved inward near the base, slightly curved outward towards the tip; scales tinged with yellow, their borders darker. Length of the body 3 lines; of the wings  $5\frac{1}{2}$  lines.

a. New Holland. Presented by the Entomological Club.

*TACHINA* Ipsea, n. s. *Nigra, capite albo micante, thorace fulvo-cano vittis quatuor angustis nigris, abdominis segmentorum marginibus anticis canis, palpis fulvis, antennis ferrugineis, pedibus nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head covered with pale tawny lustre, white beneath; a pale ferruginous stripe between the eyelets and the feelers; sides of the face fringed with bristles; epistoma not prominent: eyes red: mouth black: palpi tawny: feelers ferruginous, as long as the face; third joint linear, slender, pitchy towards the tip, which is obliquely truncated, full thrice the length of the second joint; bristle black, hardly so long as the third joint, its first joint obsolete; second very short; third stout for more than half the length, slender from thence to the tip: chest and breast covered with hoary bloom; that on the former has a tawny tinge, and is interrupted by four slender black bands: abdomen elliptical, not longer than the chest; a broad hoary band on the fore border of each segment; legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs tawny; veins black; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, a little curved inward near the base, almost straight from thence to the tip, joining the border considerably above the tip of the wing; the angle which it forms is very remote from the border, and sends forth a long stump; lower cross-vein with two slight curves; the upper outward, longer and more distinct than the other which is inward; scales white. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines

a. ———? From Mr. Children's collection.

*TACHINA* Opiter, n. s. *Nigro-cinerea, capite scutelloque fulvis abdomine aureo subtus cano, palpis fulvis, antennis nigris, pedibus piccis tarsis nigris, alis limpidis basi subflavis.*

Body black, very broad, covered with dark gray bloom, clothed with black hairs and bristles: head tawny, covered in front with white lustre, clothed beneath with hoary hairs; epistoma rather prominent; sides of the face without bristles: eyes red, hairy: sucker

pitchy, clothed towards the tip with pale tawny hairs; palpi tawny, beset with a few short, black bristles: feelers black, as long as the face; third joint nearly thrice the length of the second, almost linear, but very slightly increasing in depth from the base to the tip, which is slightly truncated: bristle more than twice the length of the second joint, its first joint obsolete, second very short; third slender, tapering from the base to the tip: scutcheon and adjoining parts of the chest tawny: abdomen obconical, a little shorter than the chest, pale gold colour with a silky lustre, hoary beneath where the segments have tawny borders: legs pitchy, clothed with black hairs and bristles; shanks dark tawny; feet black; foot-cushions tawny: wings colourless, tinged with yellow at the base; wing-ribs tawny; veins pitchy, pale tawny at the base; tip cross-vein very near the wing border, forming an obtuse angle with the fourth longitudinal vein, nearly straight, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward and short, the other long, outward and hardly perceptible; scales yellowish white. Length of the body 4 lines; of the wings 8 lines.

a. France.

*TACHINA* Calliphon. *Nigro-cinerea, palpis fulvis, antennis pedibusque nigris, alis subcinereis.*

Body grayish black, clothed with black hairs and bristles: head very hairy, ferruginous by the base of the face, whose sides are without bristles; epistoma not prominent: eyes pitchy, hairy: sucker and palpi tawny: feelers black, very nearly as long as the face; third joint about thrice the length of the second, convex at half its length above, flat beneath, truncated at the tip; bristle more than twice the length of the third joint, its first joint obsolete, second very short; third stout for near one-fourth of its length, very slender from thence to the tip: abdomen nearly elliptical, not longer than the chest: legs black, clothed black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming near the border of the wing a slightly obtuse angle with the fourth longitudinal vein, slightly curved inward, joining the border very near the tip of the wing; lower cross-vein almost straight, but with a very slight indication of the usual curves; scales white with pale tawny borders. Length of the body 4 lines; of the wings 8 lines.

a. ——— ?

**TACHINA Rhæo**, n. s. *Cana, capite argenteo micante, thorace vittis quatuor nigris, scutello fulvo, abdomine cano-fulvescente vittis tribus fasciisque nigris, palpis fulvis, antennis pedibusque nigris, alis limpidis.*

Body black, covered with hoary bloom, clothed with black hairs and bristles: head adorned in front with silvery lustre, clothed behind and beneath with hoary hairs; a tawny tinge on the crown; sides of the face without bristles, except at the base; epistoma not prominent; sucker pitchy, clothed with pale tawny hairs; palpi tawny, beset with black bristles: eyes red, not hairy: feelers black, a little shorter than the face; third joint linear, ferruginous at the base, much longer than the second, truncated at the tip; bristle much longer than the third joint, its first joint very short, second rather short, third stout for almost one-third of the length, slender from thence to the tip: chest adorned with four indistinct black stripes; scutcheon tawny: abdomen obconical, not longer than the chest, its bloom with a slight tawny tinge, and having a tessellated appearance, being interrupted by three black stripes, and by the black hind borders of the segments; last segment very bright tawny: legs black, clothed with black hairs and bristles; thighs hoary: foot-cushions tawny: wings colourless, tinged with yellow at the base; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, having a very indistinct inward curve for nearly half the length, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward and indistinct, the other shorter, more distinct and outward; scales large, white with pale yellow borders. Length of the body 4 lines; of the wings 7 lines.

a. ———? From Mr. Children's collection.

**TACHINA Theutis**, n. s. *Nigro-cinerea, capite albo micante, abdomine cano tessellato, palpis fulvis, pedibus nigris, tibiis fulvis, alis subcinereis.*

Body black, clothed with black hairs and bristles: head covered with white lustre, darker on the crown where there is a pitchy stripe from the eyelets to the feelers, clothed beneath with hoary hairs, very prominent about the feelers; sides of the face without bristles; peristoma tawny; epistoma not prominent; eyes dark red, not hairy: palpi tawny, beset with black bristles: feelers black, nearly as long as the face; first and second joints ferruginous; third slender, linear, truncated at the tip, about thrice the length of the second; bristle more than twice the length of the third joint, its first and second

joints very short; third stout for full one-fourth of its length, very slender from thence to the tip; chest covered with dark gray bloom: abdomen nearly elliptical, longer than the chest, covered with hoary lustre, which is partly interrupted by a black stripe, and by the black hind borders of the segments, and has a tessellated appearance: legs black, rather long, clothed with black hairs and bristles; shanks tawny; foot-cushions dark tawny: wings slightly gray; wing-ribs pitchy; veins black, tawny at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, irregularly and very slightly curved inward from the base to the tip, joining the border at a short distance above the tip of the wing; lower cross-vein straight, with the exception of two short and slight curves, the one inward and at the base, the other outward and at the tip; scales white, with pale yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA* Demytus, n. s. *Nigro-cinerea, capite flavo, thorace subvittato, abdominis lateribus basi fulvis, antennis rufis, articulo 3<sup>o</sup> nigro, palpis pedibusque fulvis, tarsis nigris, alis limpidis angustis.*

Body black, rather narrow, covered with gray bloom, clothed with black hairs and bristles; head adorned with pale yellow lustre, prominent about the base of the feelers, hoary and clothed with pale yellow hairs beneath; sides of the face fringed with bristles at the base; epistoma slightly prominent; eyes bright red, not hairy; sucker ferruginous; clothed with tawny hairs; palpi tawny, slender, beset with black bristles: feelers as long as the face; first and second joints red; third black, red at the base, linear, narrow, rounded at the tip, nearly four times the length of the second; bristle black, less than twice the length of the third joint, its first joint obsolete, second very short; third stout for about one-fourth of the length, very slender from thence to the tip: chest indistinctly striped with darker colour: abdomen nearly oval, not longer than the chest; a large tawny spot extends from the base to the middle on each side: legs tawny, rather long, clothed with black hairs and bristles; feet black; foot-cushions tawny: wings colourless, rather long and narrow; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, straight till near the tip, where it has a slight inward curve, joining the border a little above the tip of the wing; lower cross-vein with two curves, one near the base short and inward, the other longer, outward and near the tip; scales white, with yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

a. North America? Presented by the Entomological Club.

**TACHINA prisca**, n. s. *Cana, angusta, thorace vittis quatuor nigris, abdominis segmentorum marginibus posticis vittaque dorsali nigris, palpis nigris, antennis ferrugineis apice nigris, pedibus fulvis longis, alis limpidis.*

Body hoary, slender, clothed with black hairs and bristles: head clothed beneath with white hairs; a pitchy stripe between the eyelets and the feelers; epistoma not prominent: sides of the face without bristles except at the base: sucker pitchy, clothed with tawny hairs; palpi long, black, beset with black bristles: feelers ferruginous, nearly as long as the face; third joint black, ferruginous at the base, which is convex above where the feelers are inserted, flat above, hardly convex beneath, truncated at the tip, more than thrice the length of the second joint; bristle twice the length of the third joint, its first and second joints very short, with tawny tips; third rather stout for one-third of the length, very slender from thence to the tip: chest adorned with four black stripes: abdomen oval, not longer than the chest; first segment, hind borders of the following segments and a middle stripe black: legs tawny, long and slender; feet black; foot-cushions tawny: wings colourless, long; wing-ribs and veins tawny; tip cross-vein forming near the wing border an obtuse angle with the fourth longitudinal vein, very slightly curved inward, joining the border a little above the tip of the wing; lower cross-vein slightly curved inward near the base, indistinctly waving from thence to the tip; scales white, with very pale yellow borders. Length of the body 4 lines; of the wings 9 lines.

*a.* Nova Scotia. From Lieut. Redman's collection.

**TACHINA invaria**, n. s. *Nigra, fulvo tecta, capite antice subtusque albo, ventre cano, palpis antennis pedibusque nigris, alis subcinereis basi subfuscis.*

Body black, covered with pale tawny bloom, clothed with black hairs and bristles: head white in front and beneath; a black stripe fringed with bristles between the eyelets and the feelers: sides of the face fringed with bristles at the base; epistoma and sides of peristoma tawny, the former not prominent: eyes dark red, not hairy: sucker and palpi black: feelers black, as long as the face; third joint linear, slender, obliquely truncated at the tip, about twice the length of the third joint, its first joint obsolete; second very short; third tapering from the base to the tip: scutcheon and abdomen armed with long black spines: abdomen obconical, a little longer than the chest, somewhat hoary beneath; legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray, tinged with brown at the base; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein straight till near the tip, where it

slightly bends outward, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, shorter and much more distinct than the other which is outward; scales dingy white, with tawny borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. France?

*TACHINA* *Ipthime*, n. s. *Nigro-cinerea, capite antico flavo, abdomine basi rufo, palpis fulvis, antennis pedibusque nigris, alis subcinereis basi fulvis.*

Body grayish black, clothed with black hairs and bristles: head bright yellow in front, and on the face, ferruginous along the sides of the face, having a dark ferruginous stripe between the eyelets and the feelers; epistoma prominent: eyes pitchy, not hairy; sucker black, clothed with pale tawny hairs: palpi tawny, not bristly: feelers black, as long as the face; first and second joints red; third linear, or hardly convex above and beneath, nearly truncated at the tip, less than twice the length of the second joint; bristle about twice the length of the third joint, its first joint obsolete; second rather long; third somewhat stout for nearly one-fourth of its length, slender, tapering and downy from thence to the tip: abdomen elliptical, longer than the chest, red on nearly the whole of the first segment, and on the sides of the second segment: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings slightly gray, tawny at the base; wing-ribs and veins tawny; veins armed with bristles, pitchy towards the tips; tip cross-vein forming an extremely obtuse angle or rather curve with the fourth longitudinal vein, nearly straight for half its length, very slightly curved inward from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein slightly curved inward at the base, almost straight from thence to the tip. Length of the body 4 lines; of the wings 7 lines.

a. France.

*TACHINA* *Diabolus*, Wied. *Auss. Zweif.* ii. 302, 38. *Ocyptera* *Diabolus*, Wied. *Zool. Mag.* iii. 26, 39.

a. Cape.

*TACHINA* *Imbrasus*, n. s. *Nigra, angusta, plumbeo ex parte tecta, capite aureo, thorace nigro quadrivittato, abdomine cano trivittato, palpis antennis pedibus alisque nigris.*

Body black, rather long and narrow, partly covered with bluish gray bloom, clothed with black hairs and bristles: head bright



gold colour, silvery behind the eyes, clothed beneath with hoary hairs; crown pitchy; a broad black stripe between the eyelets and the feelers; face fringed with bristles along half the length from the base; epistoma not prominent: eyes dark red, not hairy; sucker and palpi black; palpi beset with black bristles: feelers black, as long as the face; third joint very long, much more than six times the length of the second, slightly concave above, flat beneath, increasing in depth near the tip, which is truncated; bristle a little longer than the third joint, its second joint long, more than twice the length of the first; third tapering, rather hairy: chest adorned with four black stripes: abdomen cylindrical, a little longer than the chest, adorned with three stripes of hoary lustre; the side stripes broader and more distinct than the middle stripe: legs black, long, stout, clothed with black hairs and bristles; foot-cushions and claws black: wings black, rather paler along the hind borders; wing-ribs and veins black; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very slightly waving from the base to the tip, joining the border a little above the tip of the wing: lower cross-vein with two distinct curves, the lower inward, the other outward; scales white, with brown borders. Length of the body 6 lines; of the wings 13 lines.

a. Hong Kong, China. Presented by J. C. Bowring, Esq.

Div. H. Erycinæ, *Desv. Essai Myod.* 142.

Group I. Phryno, *Desv. Essai Myod.* 143.

Group II. Roeselia, *Desv. Essai Myod.* 145.

*Note.*—Desvoidy has lately placed the two preceding groups with the *Erythroceratæ*. (See p. 763.)

TACHINA antiqua, *Meig. Dipt.* iv. 412, 300. *Zett. Dipt. Scand.* iii. 1056, 50. T. pallipes Var β., *Fall. Musc.* 22, 44. Eusigaster antiqua, *Macq. Hist. Nat. Dipt.* ii. 117, 5. Roeselia antiqua, *Meig. Dipt.* vii. 253, 1. pl. 72. f. 6.

a. England. Presented by F. Walker, Esq.

Group III. Erycia, *Desv. Essai Myod.* 146.

Group IV. Zenais, *Desv. Essai Myod.* 148.

Group V. Zaira, *Desv. Essai Myod.* 150. .

Group VI. Zaida, *Desv. Essai Myod.* 150.

Div. I. Agridæ, *Desv. Essai Myod.* 152.

Group I. Zenillia, *Desv. Essai Myod.* 152.

Group II. Pales, *Desv. Essai Myod.* 154.

Group III. Elophoria, *Desv. Essai Myod.* 156.

*TACHINA longicornis*, *Fall. Musc.* 31, 63. *Meig. Dipt.* iv. 417, 310.  
*Zett. Dipt. Scand.* iii. 1157, 157. *Fallenia longicornis*, *Meig.*  
*Dipt.* vii. 265, 1.

a. England. Presented by F. Walker, Esq.

*TACHINA arvensis*, *Meig. Dipt.* iv. 337, 169.

a. England.

*TACHINA ruricola*, *Meig. Dipt.* iv. 299, 104. *Marq. Hist. Nat.*  
*Dipt.* ii. 142, 13. *Zett. Dipt. Scand.* iii. 1093, 90. *Plagia*  
*ruricola*, *Meig. Dipt.* vii. 201, 5.

a. England.

*TACHINA Menestho*, n. s. *Nigra, abdominis segmentorum marginibus*  
*antiris cinereo fasciatis, palpis antennis pedibusque nigris, alis*  
*subcinereis longis angustis.*

Body black, clothed with black hairs and bristles: head prominent about the insertion of the feelers; epistoma and sides of the face ferruginous, the former not prominent, the latter fringed with bristles for two-thirds of the length from the base: eyes dark red, not hairy: sucker and palpi black: feelers black, as long as the face; third joint nearly linear, flat above, very slightly convex beneath, truncated at the tip, about thrice the length of the second bristle, less than twice the length of the third joint, its first very short; second moderately long; third stout for one-third of the length, slender from thence to the tip: scutcheon and abdomen armed with long black spines; abdomen elliptical, a little longer than the chest; a broad gray band on the fore border of each segment; legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray, rather long and narrow; wing-ribs pitchy; veins black, pitchy at the base; first longitudinal vein armed with bristles; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, curved inward, joining the border a little above the tip of the wing; lower cross-vein with two very indistinct curves, the lower inward, the other outward; scales white, with pale yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

a. England. Presented by F. Walker, Esq.

Group IV. Phryxe, *Desv. Essai Myod.* 158.

Div. J. Bombomydæ, *Desv. Essai Myod.* 170.

Group I. Sturmia, *Desv. Essai Myod.* 171.

Group. II. Winthemia, *Desv. Essai Myod.* 173.

TACHINA meditata? *Meig. Dipt.* iv. 15, 8. *Senomeopia meditata?*  
*Macq. Hist. Nat. Dipt.* ii. 107, 8. *Winthemia nobilis, Desv.*  
*Essai Myod.* 175, 5. *W. meditata, Desv. Ann. Soc. Ent. Fr.*  
*2nd serie, v. 286, 5.*

a. England.

TACHINA Clymenc, n. s. *Atra, augusta, nitens, capite ad os ferrugineo, palpis fulvis, antennis nigris, articulo 3<sup>o</sup> pedibusque ferrugineis, tarsis nigris, alis limpidis, basi et ad costam flavis.*

Body black, shining, narrow, clothed with black hairs and bristles and spines: head very bristly, ferruginous between the eyes and the peristoma, which is yellow; epistoma prominent; sides of the face fringed with bristles for one-third of the length from the base: eyes dark red, hairy: sucker and palpi tawny: feelers black, much shorter than the face; third joint ferruginous, deep, linear, truncated at the tip, very much longer than the second; bristle black, much longer than the third joint, its first joint obsolete, second very short; third stout for one-third of its length, slender and tapering from thence to the tip: abdomen spindle-shaped, a little longer than the chest: legs ferruginous, clothed with black hairs and bristles; feet black: foot-cushions yellow: wings colourless, tinged with yellow at the base, and along the fore border: wing-ribs and veins yellow; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, straight, joining the border a little above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward. Length of the body 4 lines; of the wings 7 lines.

a. England.

Group III. Carcelia, *Desv. Essai Myod.* 176.

TACHINA lugubris? *Mieg. Dipt.* iv. 370, 227.

a. England.

Group IV. Smidtia, *Desv. Essai Myod.* 183.

Group V. Aplomya, *Desv. Essai Myod.* 184.

*TACHINA nervosa*, Walker, Linn. Trans. xvii. 341, 26.

a. Port Famine. Presented by the Entomological Club.

*TACHINA pyrrophyga*, Wied. Zool. Mag. iii. 53, 19. Auss. Zweif.

ii. 319, 69. Walker, Linn. Trans. xvii. 341, 27.

a. South America. Presented by the Entomological Club.

*TACHINA* Hybreas, n. s. *Nigro-cinerea, capite antico fulvo, palpis fulvis, pedibus nigris, tibiis fulvis, alis sublimpidis basi et ad costam fulvis.*

Body black, stout, clothed with black hairs and bristles, covered with a gray bloom: head pale, tawny in front, clothed beneath with pale yellow hairs; a ferruginous stripe between the eyelets and the feelers; epistoma not prominent: eyes red, not hairy: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles; feelers wanting: scutcheon ferruginous towards the tip: abdomen elliptical, a little longer and broader than the chest: legs black; shanks dark tawny; wings nearly colourless, tawny at the base, and along the fore borders for nearly half the length; wing-ribs and veins tawny; veins black towards the tips; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, nearly straight, but very slightly waving from the base to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two distinct curves, the lower inward and rather shorter than the other, which is outward; scales white, bordered with yellow. Length of the body 4 lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*TACHINA* Coras, n. s. *Nigra, capite aureo, thorace vittis tribus intermedia duplicata, pectoreque canis, lateribus flavescentibus; scutello ferrugineo, abdomine maculis fascisque plumbeis ornato, palpis fulvis, antennis ferrugineis, articulo 3<sup>o</sup> pedibusque nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head bright gold colour, clothed beneath with bright yellow hairs, very prominent about the base of the feelers; face hoary, its sides fringed with bristles for one-fourth of the length from the base; epistoma slightly prominent: eyes red, not hairy; sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, shorter than the face; first and second joints dark ferruginous, third joint nearly linear, but with a very slight depression above, and a proportionate convexity beneath, truncated at the tip; full twice the

length of the second joint; bristle about twice the length of the third joint, its second joint of moderate length, about twice the length of the first joint; third joint stout for more than one third of the length, when it is adorned with a red band, slender from thence to the tip: chest adorned with three slender hoary stripes; middle stripe double; sides tinged with yellow; scutcheon very dark ferruginous: breast hoary; abdomen obconical, not longer than the chest, adorned with a large bluish white spot on each side of every segment, across whose fore border there is a narrow band of the same colour: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings nearly colourless; wing-ribs tawny; veins black; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, slightly curved inward near the base, nearly straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with a slight inward curve, extending nearly along its whole length. Length of the body 5 lines; of the wings 10 lines.

a. West Australia. From Mr. Clifton's collection.

TACHINA flavicans, *Wied. Zool. Mag.* iii. 24, 36. *Auss. Zweif.* ii. 324, 79.

a. Cape.

TACHINA Epicydes, n. s. *Nigro-cinerea, capite cano micante, palpis fulvis, antennis pedibusque nigris, tibiis basi fulvis, alis subcinereis.*

Body grayish black, clothed with black hairs and bristles: front of the head adorned with hoary lustre; a ferruginous stripe on each side of the peristoma; sides of the face without bristles, except at the base; epistoma not prominent: eyes red, hairy: sucker pitchy, clothed with tawny hairs; palpi stout, tawny, beset with black bristles: feelers black, a little shorter than the face; third joint about twice the length of the second, flat above, till near the tip where it rises, rather convex beneath, slightly rounded at the tip; bristle more than twice the length of the third joint, its first joint obsolete; second very short; third slender, tapering from the base to the tip: abdomen nearly oval, very little longer than the chest: legs black, clothed with black hairs and bristles; shanks tawny at the base; foot-cushions yellow: wings slightly gray; wing-ribs dark tawny; veins black, tawny at the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, straight for one-fourth of the length, and having a very slight inward curve from them to the tip, joining the border a little above the tip of the wing; lower cross-vein with two very slight curves,

the lower inward, the upper outward; scale white, with yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

TACHINA Pansa, n. s. *Picea, capite flavo-albo micante, thoracis lateribus vittisque tribus canis, abdomine cano trifasciato, palpis fulvis, antennis, pedibusque nigris, alis subcinereis.*

Body pitchy, clothed with black hairs and bristles; head covered with yellowish-white lustre, clothed beneath with pale yellow hairs, having a tawny hue on each side of the crown, the middle part of which is occupied by a pitchy stripe between the eyelets and the feelers; sides of the face tawny, fringed with black bristles for full half the length from the base: a tawny band on each side between the face and the eyes; epistoma slightly prominent; eyes dark red, not hairy: sucker black, pitchy and clothed with tawny hairs; palpi tawny, slender, beset with black bristles: feelers black, a little shorter than the face; third joint a little more than twice the length of the second joint, flat above, slightly convex beneath, rounded at the tip; bristle rather less than twice the length of the third joint; its first joint obsolete; second very short; third stout for more than one-third of its length, very slender from thence to the tip: chest adorned with three slender hoary stripes; sides hoary; scutcheon ferruginous; abdomen obconical, longer than the chest, adorned with three hoary bands on the fore borders of the segments; first and second bands narrow above, broad on each side; third band broad, and sending forth a short stripe towards the tip: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, very slightly curved inward near the base, almost straight from thence to the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward, the upper shorter and outward. Length of the body 6—7 lines; of the wings 11—12 lines.

Var.  $\beta$ . The inward curve of the lower cross-vein shorter and more distinct than the outward.

Var.  $\gamma$ . Lower cross-vein slightly waving for half its length, straight from thence to the tip.

a. North America. Presented by the Entomological Club.

b. Nova Scotia.

Var.  $\delta$ ? Body pitchy, clothed with black hairs and bristles: head covered with a pale tawny, shining, silk-like covering, thickly

clothed behind and beneath with yellowish white hairs; a black stripe extends from the feelers to the eyelets, on approaching which it gradually disappears; sides of the face fringed with bristles for nearly two-thirds of the length from the base; epistoma prominent: eyes dark red, not hairy: sucker black, pitchy, and clothed with tawny hairs towards the tip; palpi ferruginous, slender, beset with black bristles: feelers ferruginous, shorter than the face; third joint of the male longer than that of the female, much more than twice the length of the second joint, pitchy, linear, truncated at the tip; third joint of the female more than twice the length of the second, rather deep, flat above slightly convex beneath, very obliquely truncated at the tip; bristle pitchy, nearly twice the length of the third joint, its first joint obsolete, second short, third stout for one-third of the length, very slender from thence to the tip: chest covered with dark tawny bloom, very indistinctly striped, paler and with a hoary tinge on each side and beneath; scutcheon armed with a few long black spines; abdomen long-obconical, much longer than the chest, adorned with three short whitish bands on the fore borders of the segments; third band much broader than the preceding, and having a tawny tinge on the hinder part: legs black, thickly clothed with black hairs and bristles; thighs and shanks slightly covered with hoary bloom; foot-cushions tawny: wings slightly gray, yellowish, white at the base; wing-ribs ferruginous; veins black, ferruginous towards the base; tip cross-vein forming almost a right angle with the fourth longitudinal vein, very slightly curved inward, joining the border far above the tip of the wing; lower cross-vein with a slight inward curve from the base till near the tip, whence it is straight; scales dingy white with tawny borders. Length of the body  $5\frac{1}{2}$ —6 lines; of the wings 11—12 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA violenta*, n. s. mas. *Picea, fulvo tecta, thorace subvittato, abdomine fulvo trifasciato, palpis antennisque ferrugineis, harum articulo 3<sup>o</sup> piceo, pedibus nigris, alis subcinereis basi flavo-albis.*

Body pitchy, clothed with black hairs and bristles: head with a golden tawny covering, thickly clothed behind and beneath with tawny hairs; a black stripe extends from the feelers towards the eyelets on approaching which it gradually disappears; sides of the face fringed with bristles for nearly two-thirds of the length; epistoma slightly prominent: eyes dark red, not hairy: sucker black, pitchy and clothed with tawny hairs towards the tip; palpi ferruginous, slender, beset with black bristles: feelers ferruginous, a little shorter than the face; third joint pitchy, linear, slightly rounded at

the tip, thrice the length of the second joint; bristle black, twice the length of the third joint, its first joint obsolete; second short; third stout for one-third of the length, very slender from thence to the tip; chest with a yellowish-tawny covering, very indistinctly striped; breast dark tawny; scutcheon armed with a few long black spines: abdomen long-obconical, much longer than the chest, adorned with three pale tawny bands on the fore borders of the segments; third band much broader than the preceding; legs black, thickly clothed with black hairs and bristles; thighs and shanks slightly covered with hoary bloom; foot-cushions tawny; wings slightly gray, yellowish white at the base; wing-ribs ferruginous; veins black, ferruginous towards the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very slightly curved inward, joining the border far above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward, but hardly perceptible; scales dingy with white tawny borders. Length of the body 6 lines; of the wings 12 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*TACHINA irrequieta*, n. s. *Nigra, fulvo tecta, thorace subvittato, abdominis vitta et segmentorum marginibus posticis nigris, pectore ventrique canis, palpis ferrugineis, antennis pedibusque nigris, alis sublimpidis basi flavo-albis.*

Body black, clothed with black hairs and bristles: head with a pale yellow covering, thickly clothed behind and beneath with yellowish white hairs; a black stripe proceeds from the feelers towards the eyelets on approaching which it ceases; sides of the face fringed with bristles for two-thirds the length from the base; epistoma slightly prominent: eyes dark red, not hairy: sucker black, clothed with tawny hairs; palpi ferruginous, beset with black bristles: feelers black, nearly as long as the face; second joint ferruginous towards the tip; third joint of the male more than twice the length of the second, linear, truncated at the tip, third joint of the female nearly twice the length of the second, rather deep, slightly increasing in depth from the base to the tip, which is obliquely truncated; bristle like that of the preceding species: chest with a dull pale tawny covering, which is indistinctly striped; breast more hoary; scutcheon armed with some long black spines: abdomen oval, not longer than the chest, adorned with a pale tawny covering, which is partly interrupted on the hind borders of the segments, and by a stripe along the back; underside quite hoary: legs black, clothed with black hairs and bristles; thighs and shanks with a slight hoary tinge; foot-cushions tawny: wings nearly colourless, yellowish white towards the base; wing-ribs tawny; veins black, tawny towards the base;



tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very slightly curved inward, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, more distinct than the other, which is outward; scales white, with yellow borders. Length of the body 5 lines; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

Div. K. Tachinarix, *Desv. Essai Myod.* 185.

Group I. Tachina, *Desv. Essai Myod.* 186.

Group II. Voria, *Desv. Essai Myod.* 195.

Group III. Guerinia, *Desv. Essai Myod.* 196.

Group IV. Meigenia, *Desv. Essai Myod.* 198.

Group V. Acemya, *Desv. Essai Myod.* 202.

TACHINA præpotens, *Meig. Dipt.* 292, 95.

a. England.

TACHINA larvarum, *Meig. Dipt.* iv. 295, 100, vii. 190, 19. *Macq. Hist. Nat. Dipt.* ii. 141, 8, pl. 14, f. 15. *Zett. Ins. Lapp.* 634, 2. *Dipt. Scand.* iii. 1015, 3. *Musca larvarum Linn. Faun. Suec.* 1839. *Fabr. Sp. Ins.* ii. 442, 34. *Ent. Syst.* iv. 326, 59. *Syst. Antl.* 300, 81. *Gmel. Ed. Syst. Nat.* v. 2846, 78. *Deg. Ins.* vi. 14, 4? *Schrank, Faun. Boic.* iii. 2443. *Ins. Austr.* 937. *Tachina rustica, Fall. Musc.* 5, 5.

a. England.

TACHINA nitidula, *Meig. Dipt.* iv. 297, 101.

a. England.

TACHINA consobrina, *Meig. Dipt.* iv. 248, 15. *Zett. Dipt. Scand.* iii. 1103, 100. *Nemoræa consobina, Meig. Dipt.* vii. 221, 5. *Macq. Ann. Soc. Ent. Fr. 2me série,* vi. 116, 10, pl. 6, f. 6.

a. England.

TACHINA Cymelus, n. s. *Nigro-cinerea, capite argenteo micante, thorace nigro bivittato, scutelli apice ferrugineo, abdomine nigropiceo cano micante segmenti 2º lateribus ferrugineis, palpis antennis pedibusque nigris, alis subcinereis basi fulvis.*

Body black, clothed with black hairs and bristles: head adorned on the face on the borders of the eyes, and in front with silvery

lustre, clothed beneath with hoary hairs, ferruginous on each side of the epistoma, which is not prominent; sides of the face fringed with hairs at the base; eyes red, not hairy: sucker black, ferruginous and clothed with tawny hairs at the tip: palpi black, beset with black bristles: feelers black, shorter than the face; third joint a little more than twice the length of the second, very slightly convex above and beneath, obliquely truncated at the tip; bristle tapering, downy, rather more than twice the length of the third joint, its first joint obsolete; second very short: third rather stout for about one-fourth of the length, slender from thence to the tip: chest gray with two indistinct black stripes; scutcheon dark ferruginous towards the tip: abdomen somewhat pitchy, nearly oval, not longer than the chest, adorned with hoary reflections which are chiefly on each side of the fore borders of the segments, and have a tessellated appearance; second ferruginous on each side: legs black, clothed with black hairs and bristles; thighs and shanks with a slight hoary tinge; foot-cushions tawny: wings slightly gray, tinged towards the base with pale tawny; shoulders tawny; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, a little curved inward along the whole length, joining the border a short distance above the tip of the wing; lower cross-vein with two hardly perceptible curves, the lower inward, the other outward; scales dingy white with pale tawny borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. ———? From Mr. Children's collection.

*TACHINA* Astylos, n. s. *Nigra, lata, capite ad os fulvo, facie alba, thorace cinereo subvittato, abdominis lateribus ferrugineis, antennis ferrugineis, articulo 3<sup>o</sup> palpisque nigris, pedibus nigris, tarsis piceis, alis sublimpidis.*

Body rather broad, black, clothed with black hairs and bristles: head pale tawny in front, clothed beneath with hoary hairs, brown on the crown, epistoma prominent; face white, its sides ferruginous; fringed with bristles along full half the length from the base: eyes dark red, hairy; sucker black, clothed with tawny hairs; palpi black, beset with black bristles; feelers ferruginous; third joint black, bristle tapering, stout: chest gray, indistinctly striped: scutcheon ferruginous, armed with a few long black spines; abdomen obconical, black, a little shorter than the chest, ferruginous on each side; legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; feet pitchy; foot-cushions tawny; wings nearly colourless, whitish at the base; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming an obtuse angle with the

fourth longitudinal vein, very straightly curved inward in the middle of its course, joining the border at some distance above the tip of the wing; lower cross-vein with two distinct curves, the lower inward, the other outward; scales white, with pale tawny borders. Length of the body 5 lines; of the wings 11 lines.

a. ——— ?

Group VI. *Gymnocheta*, *Desv. Essai Myod.* 371. •

*TACHINA viridis*, *Fall. Musc.* 25, 51. *Meig. Dipt.* iv. 258, 32. *Zett. Dipt. Scand.* iii. 1190, 3. *Gymnocheta viridis Desv. Essai Myod.* 372, 2. *Chrysosoma viridis, Macq. Hist. Nat. Dipt.* ii. 150, 1, *pl.* 14. *f.* 16. *Ann. Soc. Ent. France*, 2<sup>mé</sup> serie, vi. 90, 1. *Meig. Dipt.* vii. 217, 2, *pl.* 70, *f.* 6.

a. England.

Div. L. *Macquartidæ*, *Desv. Essai Myod.* 203.

Group I. *Macquartia*, *Desv. Essai Myod.* 204.

*TACHINA egens*, *Wied. Meig. Dipt.* iv. 275, 63. *Macquartia egens, Desv. Essai Myod.* 205, 2.

a. England. Presented by F. Walker, Esq.

*TACHINA chalybeata, Meig. Dipt.* iv. 271, 56. *Musca promans? Harr. Ex.* 143, *pl.* 42, *f.* 47.

a. England.

Group II. *Amedia*, *Desv. Essai Myod.* 207.

Group III. *Eubia*, *Desv. Essai Myod.* 207.

*TACHINA tremula, Fabr. Syst. Antl.* 310, 9. *Fall. Musc.* 34, 70. *Meig. Dipt.* iv. 272, 58. *Musca tremula, Linn. Fabr. Sp. Ins.* ii. 442, 32. *Ent. Syst.* iv. 325, 56. *Gmel. Ed. Syst. Nat.* v. 2846, 77. *Schrank, Faun. Boic.* iii. 2440. *M. grossa, Schrank, Ins. Austr.* 946.

a. England.

b. France.

Group IV. *Minella*, *Desv. Essai Myod.* 209.

Group V. *Albinia*, *Desv. Essai Myod.* 209.

Group VI. *Novia*, *Desv. Essai Myod.* 210.

*TACHINA ignobilis*, *Meig. Dipt.* iv. 264, 42. *Nemoræa ignobilis*, *Meig. Dipt.* vii. 221, 19, *Macq. Ann. Soc. Ent. France*, 2me série, vi. 128, 25.  
a. England.

Div. M. Sericoceratæ, *Desv. Essai Myod.* 211.

Group I. Microptera, *Desv. Essai Myod.* 212.

Group II. Phyllomya, *Desv. Essai Myod.* 213.

Group III. Phorophylla, *Desv. Essai Myod.* 213.

*TACHINA lateralis*, *Meig. Dipt.* iv. 283, 78. *Musca lateralis*, *Fabr. Sp. Ins.* ii. 443, 37. *Ent. Syst.* iv. 328, 68. *Gmel. Ed. Syst. Nat.* v. 2847, 211. *Schell. Gen. Mouch.* pl. 3, f. 3. *Schrank, Faun. Boic.* iii. 2445. *Don. Brit. Ins.* l. 62, pl. 31, f. 3. *Stew. El.* 259. *Turt.* iii. 607. *M. restituo*, *Hurr. Ex.* 36, pl. 9, f. 5. *Ocyptera lateralis*, *Fabr. Syst. Ant.* 314, 8. *O. tachinaria*, *Fall. Rhizom.* vi. 4. *Musca rufomaculata*, *Deg. Ins.* vi. 15, 7, pl. 1, f. 9. *Olivieria lateralis*, *Desv. Essai Myod.* 283, 1.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

Div. N. Ptiloceratæ, *Desv. Essai Myod.* 217.

Group I. Phyto, *Desv. Essai Myod.* 218.

Group II. Stevenia, *Desv. Essai Myod.* 220.

Group III. Ptilocera, *Desv. Essai Myod.* 221.

Group IV. Thilaira, *Desv. Essai Myod.* 214.

Group V. Uramya, *Desv. Essai Myod.* 215.

Group VI. Mintho, *Desv. Essai Myod.* 216.

*TACHINA Thaumias*, n. s. *Nigro-cinerea, facie alba, thorace subvittato, abdominis segmentorum marginibus anticis cano micantibus, palpis antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles, slightly covered with gray: a black stripe with a hoary border on each side between the eyelets and the feelers; face white, its sides fringed with bristles towards the base; epistoma not prominent; eyes dark red, not hairy: sucker and palpi black; feelers black, as long as the

face; third joint linear, more than twice the length of the second; bristle about twice the length of the third joint, rather stout-towards the base, feathered with short hairs till near the tip, chest indistinctly striped: scutcheon and abdomen armed with some long black spines: abdomen gray, obconical, longer than the chest; fore borders of the segments adorned with hoary reflections: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward near the base, straight from thence to the tip, joining the border far above the tip of the wing; lower cross-vein with two slight outward curves, and between them an equally slight inward curve; scales white, with pale yellow borders. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

a. ———?

Div. O. Dufouridæ, *Desv. Essai Myod.* 252.

Group I. Dionæa, *Desv. Essai Myod.* 253.

Group. II. Phanemya, *Desv. Essai Myod.* 254.

Group III. Clelia, *Desv. Essai Myod.* 255.

Group IV. Feburia, *Desv. Essai Myod.* 256.

Group V. Dufouria, *Desv. Essai Myod.* 257.

Div. P. Gagatæ, *Desv. Essai Myod.* 260.

Group I. Nyctia, *Desv. Essai Myod.* 262.

Group II. Morinia, *Desv. Essai Myod.* 264.

Group III. Medoria, *Desv. Essai Myod.* 266.

Group IV. Megerlea, *Desv. Essai Myod.* 266.

Group V. Kirbya, *Desv. Essai Myod.* 267.

Group VI. Scopolia, *Desv. Essai Myod.* 268.

TACHINA carbonaria, *Meig. Dipt.* iv. 420, 315. Ocyptera carbonaria, *Fall. Rhizom.* 8—9. Musca carbonaria, *Panz. Faun. Germ.* 54, 15. Scopolia carbonaria, *Desv. Essai Myod.* 269, 2. Zett. *Dipt. Scand.* iii. 1239, 1. Melanophora carbonaria, *Macq. Hist. Nat. Dipt.* ii. 176, 9.

a. ———? From Mr. Children's collection.

Group VII. *Paykullia*, *Desv. Essai Myod.* 270.Group VIII. *Melanophora*, *Meig. Desv. Essai Moyd.* 271.

*TACHINA roralis*, *Meig. Dipt.* iv. 284, 79. *Macq. Hist. Nat. Dipt.* ii. 178, 17. *Zett. Dipt. Scand.* iii. 1237, 1. *Melanophora roralis*, *Desv. Essai Myod.* 272, 1. *Musca roralis*, *Linn. Syst. Nat.* ii. 993. *Faun. Suec.* 1846. *Gmel. Ed. Syst. Nat.* v. 2848, 85. *Fabr. Sp. Ins.* ii. 444, 44. *Ent. Syst.* iv. 330, 76. *Syst. Antl.* 304, 102. *Schrank, Faun. Boic.* iii. 2446. *Ins. Austr.* 941. *Turt.* iii. 608. *M. grossificationis*, *Linn. Syst. Nat.* ii. 296. *Faun. Suec.* 1865. *Gmel. Ed. Syst. Nat.* v. 2855, 109. *Fabr. Sp. Ins.* ii. 451, 83. *Ent. Syst.* iv. 351, 161. *Schrank, Ins. Austr.* 954. *Turt.* iii. 618. *Don. Brit. Ins.* xii. 71, pl. 419. *M. interventum*, *Harr. Ex.* 144, pl. 42, f. 57. *Tephritis grossificationis*, *Fabr. Syst. Antl.* 324, 42. *Ocyptera roralis*, *Fall. Rhizom.* 7, 7.

Group IX. *Illigeria*, *Desv. Essai Myod.* 273.

*TACHINA luctuosa*, *Meig. Dipt.* iv. 347, 186.

a. England

*TACHINA* ——— ?

a. Upsal, Swedep. Presented by the Entomological Club.

*TACHINA atramentaria*, *Megerle, Meig. Dipt.* iv. 291, 93.

a. England.

b. France ?

c. Naples. Presented by M. A. Pierret.

*TACHINA simplex*, *Meig. Dipt.* iv. 289, 89. *Ocyptera simplex*, *Fall. Rhizom.* 8, 10. *Melanophora simplex*, *Macq. Hist. Nat. Dipt.* ii. 178, 19. *Leucostoma simplex*, *Zett. Dipt. Scand.* iii. 1235, 5.

a. ——— ? From Mr. Children's collection.

b. ——— France ?

*TACHINA Helymus*, n. s. *Nigra, nitens, palpis antennis pedibusque nigris, alis subcinereis marginibus anticis fuscis, venis transversis fusco nebulosis.*

Body black, shining, clothed with black hairs and bristles : eyes red, not hairy ; feelers, sucker and palpi black ; abdomen spindle-shaped, longer than the chest ; legs black, clothed with black

hairs and bristles; wings slightly gray, brown along the fore borders; cross-vein clouded with brown; tip cross-vein forming an acute angle with the fourth longitudinal vein, much curved inward, joining the third longitudinal at a long distance before the tip of the latter; lower cross-vein slightly curved inward, nearly perpendicular to the longitudinal veins; scales white, with yellow borders. Length of the body  $2\frac{1}{4}$  lines; of the wings 4 lines.

a. Maine. Presented by the Entomological Club.

TACHINA Sosilus, n. s. *Nigra, palpis antennis pedibusque nigris, alis albis.*

Body black, clothed with black hairs and bristles: eyes red, not hairy: sucker, palpi and feelers black: abdomen oval, hardly longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings white; wing-ribs and veins yellow; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very slightly curved outward, joining the third longitudinal vein at some distance from the tip of the latter; lower cross-vein very slightly curved inward, nearly straight at the base, and at the tip. Length of the body  $1\frac{1}{2}$  lines; of the wings 3 lines.

a. New Zealand.

TACHINA Ælops, n. s. *Nigra, capite ad os argenteo, abdomine fulvo, palpis antennisque nigris, pedibus piceis, alis fuscis angustis.*

Body black, clothed with black hairs and bristles: head silvery in front; epistoma prominent: sides of the face without bristles; eyes dark red, not hairy: sucker, palpi and feelers black: abdomen tawny, cylindrical, much longer than the chest: legs pitchy, clothed with black hairs and bristles; wings deep brown, rather narrow; wing-ribs and veins black; tip cross-vein forming a very obtuse angle or rather curve with the fourth longitudinal vein, almost straight till near the tip, and then it is slightly inclined inward, joining the border at the tip of the wing; where the third longitudinal vein also terminates; lower cross-vein almost perpendicular to the longitudinal veins, slightly curved inward in half of its course; scales white, very large. Length of the body  $\frac{3}{4}$  lines; of the wings 5 lines.

a. Georgia. From Mr. Abbot's collection.

**TACHINA** *Corythus*, n. s. *Nigro-fusca facie flava, thoracis lateribus abdomineque fulvis, palpis antennis pedibusque nigris, femoribus fulvis, alis fusco-cinereis, marginibus posticis subcinereis.*

Body very dark brown, clothed with black hairs and bristles: head prominent about the insertion of the feelers, adorned with a tawny stripe on each side of the crown; face yellow, fringed with bristles at the base; epistoma not prominent; eyes pitchy, not hairy: sucker tawny, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, shorter than the face; third joint nearly spindle-shaped, hardly longer than the second, bristle much longer than the third joint, its first joint obsolete; second very short; third stout for one-third of the length, slender from thence to the tip: sides of the chest tawny; abdomen tawny, nearly cylindrical, a little narrower and much longer than the chest: legs black, clothed with black hairs and bristles; thighs tawny with black tips; foot-cushions large, tawny: wings for more than half the breadth dark gray, with brown stripes along the veins, pale gray along the hind borders; wing-ribs and veins black; fourth longitudinal vein slightly waving in the latter part of its course; middle cross-vein clouded with brown; tip cross-vein forming an extremely obtuse angle or rather curve with the fourth longitudinal vein, slightly curved outward, joining the third longitudinal vein at some distance before the tip of the latter; lower cross-vein with two curves, the lower inward, less distant than the other which is outward; scales yellowish white. Length of the body  $3\frac{1}{4}$  lines; of the wings 6 lines.

a. Georgia. From Mr. Abbot's collection.

### GONIA Meigen.

**GONIA** *capitata*, Meig. *Dipt.* iv. 3, 8. *Curt. Brit. Ent.* 533, 1. *Macq. Hist. Nat. Dipt.* ii. 85, 1. *Ann. Soc. Ent. France*, 2me série, iii. 277, 1, pl. 5, f. 8. *Zett. Dipt. Scand.* iii. 1192, 1. *Musca capitata*, Degeer, *Ins.* vi. 12, 2, pl. 1, f. 3. *Tachina capitata*, Fall. *Musc.* ii. 18. *Reaumuria capitata*, Desv. *Essai Myod.* 80, 2. *Rhedie vernalis*, Desv. *Essai Myod.* 75, 1. Var? *Gonia vittata*, Meig. *Dipt.* iv. *Macq. Ann. Soc. Ent. France*, 2me série, iii. 279, 3, pl. 5, f. 9.

a. England.

b. England. From Mr. Shuckard's collection.

**GONIA** *ornata*, Meig. *Dipt.* v. 32, pl. 42, f. 10. *Macq. Ann. Soc. Ent. France*, 2me série, iii. 278, 2.

a. ———? From Mr. Children's collection.



*GONIA auriceps*, Meig. *Dipt.* v. 5, 7. *Curt. Brit. Ent.* 533, 3.

a. ———?

b. Tunis. From Mr. Fraser's collection.

c. Georgia.

*GONIA Philadelphica*, Macq. *Dipt. Exot.* ii. 3, 51, 6.

a. North America. Presented by the Entomological Club.

b. Nova Scotia. From Lieut. Redman's collection.

*GONIA bimaculata*, Wied. *Zool. Mag.* iii. 25, 38. *Auss. Zweif.* ii. 344, 3.

a. South Africa. Presented Dr. A. Smith.

*GONIA angusta*, Macq. *Dipt. Exot.* ii. 3, 56, 7, pl. 5, f. 5.

a. Jamaica. From Mr. Gosse's collection.

b. Jamaica.

*GONIA albifrons*, Barnston's MSS. fem. *Nigra, capite fulvo, scutello ferrugineo, abdomine nigro-cinereo, antennis ferrugineis articulo 3<sup>o</sup> pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles; head pale tawny, adorned with whitish lustre, thickly clothed beneath with white hairs; epistoma prominent; face white, its sides fringed with bristles for one-fourth of the length from the base; eyes red: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers black, as long as the face; first and second joints ferruginous; third joint black, slender, linear, rounded at the tip, about four times the length of the second; bristle black, a little shorter than the third joint: scutcheon ferruginous: abdomen obconical, a little shorter than the chest, slightly tinged with gray: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, slightly curved inward along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two short curves, one inward at the base, the other outward at the tip, the middle part straight; scales white, with yellowish white borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**GONIA Chilonis**, n. s., fem. *Nigra, capite fulvo, scutello ferrugineo, abdominis lateribus cano maculatis, antennis ferrugineis, articulo 3<sup>o</sup> pedibusque nigris, alis subcinereis basi fulvis ad costam fuscis.*

Body black, clothed with black hairs and bristles: head tawny, clothed beneath with pale yellow hairs; sides of the face fringed with bristles for three-fourths of the length: eyes dark red: sucker black, clothed at the tip with tawny hairs: palpi tawny, beset with black bristles: feelers black, as long as the face; first and second joints ferruginous; third linear, about four times the length of the second, slightly rounded at the tip; bristle a little shorter than the third joint: scutcheon ferruginous: abdomen obconical, as long as the chest, adorned with a hoary spot on each side of the fore border of every segment; legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray, tawny at the base, brown along the fore borders; wing-ribs and veins tawny; veins black towards the tips; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, hardly curved inward near the base, almost straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales pale tawny. Length of the body 4—5 lines; of the wings 7—9 lines.

a. ——— ?

**GONIA Milias**, q. s., fem. *Nigra, cano tecta, capite fulvo, thorace quadrivittato, scutello fulvo, abdomine cano micante, lateribus basi fulvis, antennis ferrugineis, articulo 3<sup>o</sup> pedibusque nigris, alis albidis basi subfulvis.*

Body black, with a hoary covering, clothed with black hairs and bristles: head pale tawny, with a white bloom, clothed beneath with white hairs; epistoma slightly prominent; sides of the face fringed with bristles for half the length from the base; eyes red: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, a little shorter than the face; first and second joints ferruginous; third ferruginous at the base, and for half the length beneath, linear, slender, truncated at the tip, more than four times the length of the second joint; bristle a little shorter than the third joint: chest adorned with four slender interrupted black stripes; scutcheon tawny, as is also the neighbouring part of the chest: abdomen obconical, not longer than the chest, adorned with hoary reflections, and on each side of the base, with a very large tawny spot: legs black, clothed with black hairs and bristles; knees ferruginous; foot-cushions tawny: wings whitish, pale tawny at the base: wing-ribs tawny; veins pitchy; tawny at the base; tip cross-

vein forming an acute angle with the fourth longitudinal vein, slightly curved inward near the base; almost straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower short and inward, the other long and outward; scales grayish with tawny borders. Length of the body 5 lines; of the wings 10 lines.

a. New Holland. Presented by the Earl of Derby.

●  
DUOMYIA, n. g.

Body, linear, convex, narrow: head large, without bristles; face very large, furrowed; epistoma not prominent: sucker large: feelers shorter than the face; third joint long, compressed nearly linear; bristle not hairy, nearly twice the length of the third joint, its first joint obsolete; second very short: third slightly thickened at the base, slender and tapering from thence to the tip: 4th longitudinal vein not sending forth a tip cross-vein as in *Tachina*, but more resembling that of *Anthomyia*, and proceeding in a nearly straight line to the tip of the wing.

DUOMYIA obscura, n. s., fem. *Cyanea, capite thoracisque lateribus ferrugineis, abdomine purpureo, antennis nigris, pedibus ferrugineis, femoribus supra cyaneis, tibiis anticis tarsisque nigris, alis fuscis.*

Head pitchy and furnished with a few short white hairs above, yellow in front, ferruginous on the crown, whence a ferruginous stripe extends to the feelers; face pale yellow; grooves for the feelers white; eyes red, not hairy; sucker black, clothed with short tawny hairs; palpi black, beset with black bristles: feelers black; third joint flat above, very slightly convex beneath, rounded at the tip, nearly six times the length of the second joint: chest dark blue, shagreened, thinly covered with tawny down, ferruginous on each side; scutcheon smooth, shining, abdomen dark purple, very convex, punctured, shining, narrower and a little longer than the chest: legs ferruginous, stout, clothed with short hoary hairs; thighs blue above; fore shanks and feet black; foot-cushions tawny: wings dark brown, especially along the fore border; wing-ribs tawny; veins black, tawny at the base; fourth longitudinal vein forming a very obtuse angle at the junction of the lower cross-vein, joining the border a very little above the tip of the wing; lower cross-vein forming a very obtuse angle with the fourth longitudinal vein, straight for half the length, slightly curved outward from thence to the tip; scales brownish. Length of the body 7 lines; of the wings 14 lines.

a. New Holland. Presented by J. Hunter, Esq.

*DUOMYIA thalassina*, n. s. fem. *Cyaneo-viridis*, *capite ferrugineo*, *antennis nigris*, *pedibus ferrugineis*, *femoribus viridibus*, *tarsis fulvis*, *alis subfulvis*.

Head ferruginous, pitchy about the base of the feelers, pale yellow in front; grooves of the feelers almost white: eyes red, not hairy: sucker black, clothed with short tawny hairs; palpi black, beset with black bristles; feelers black; slightly convex above and beneath, rounded at the tip: chest and abdomen dark bluish-green, thinly covered with tawny down: chest shagreened; scutcheon smooth, shining: abdomen punctured, obconical, shorter and narrower than the chest: legs ferruginous, clothed with short pale hairs; hips and thighs green; tips of thighs tawny; feet tawny, darker towards the tips: claws black: wings with a tawny tinge, which is deeper on the fore borders; wing-ribs and veins tawny; scales yellowish white with tawny borders; structure of the veins like that of *D. obscura*. Length of the body 5—6 lines; of the wings 11—12 lines.

a. ——— ?

#### CHROMATOMYIA, n. g.

Head without bristles; face large, forming a ridge; epistoma prominent: sucker large: feelers shorter than the face; third joint rather long; bristle long, slender, not hairy, its first joint obsolete, second very short: structure of the wing-veins like that of *Duomyia*.

*CHROMATOMYIA, formosa*, n. s., fem. *Ferruginea*, *thoracis disco abdomineque cyaneis*, *antennis ferrugineis*, *articulo 3<sup>o</sup> piceo*, *pedibus ferrugineis*, *tarsis subnigris*, *alis limpidis*, *basi costarumque marginibus fulvis*.

Head ferruginous, thinly clothed with short tawny hairs; eyes pitchy, not hairy; sucker ferruginous; palpi tawny, beset with black bristles: feelers ferruginous, not more than half the length of the face; third joint pitchy, slightly convex above and beneath, rounded at the tip, nearly twice the length of the second joint; bristle black, tawny at the base, nearly twice the length of the third joint; its third joint stout for less than one-fourth of the length, very slender from thence to the tip; chest and breast ferruginous, thinly clothed with short tawny hairs; disk of the chest blue, including a tawny stripe on the fore part; abdomen bright blue, smooth, shining, obconical, a little shorter and broader than the chest: legs ferruginous, clothed with short tawny hairs; feet blackish; foot-cushions dull tawny: wings colourless, tawny at the base, and on the fore

borders and along the borders of the veins ; fore borders adorned with four black spots, first spot at the base, irregular ; second smaller, triangular ; third like a dot ; fourth at the tip ; wing-ribs and veins tawny ; veins black on the dark parts, and at the tips of the wings ; fourth longitudinal vein forming an extremely obtuse angle at the junction of the lower cross-vein, thence very slightly curved inward, and joining the border a little below the tip of the wing ; lower cross-vein very slightly curved inward, forming a very obtuse angle with the fourth longitudinal vein ; scales yellowish-white, with yellow borders. Length of the body 6 lines ; of the wings 14 lines.

a. Australia. From the Rev. J. Wenham's collection.

*CHROMATOMYIA placida*, n. s., fem. *Ferruginea, abdomine viridi, antennis ferrugineis, articulo 3<sup>o</sup> palpisque nigris, pedibus fulvis, tarsis subnigris, alis subfulvis fusco quadrimaculatis.*

Head ferruginous, thinly clothed with short tawny hairs ; eyes gold-colour, not hairy : sucker ferruginous ; palpi black, beset with black bristles ; feelers ferruginous, not more than half the length of the face ; third joint black, slightly convex above and beneath, rounded at the tip, nearly twice the length of the second joint ; bristle black, tawny at the base, nearly twice the length of the third joint, its third joint stout for less than one-fourth of the length, very slender from thence to the tip : chest ferruginous, clothed with short black hairs ; abdomen obconical, green, smooth, shining, ferruginous at the base, a little shorter than the chest : legs tawny ; feet nearly black ; foot-cushions pale tawny : wings slightly tawny, darker at the base and on the fore borders, the latter adorned with four brown marks ; first mark near the base, small and indistinct ; second and third bordering the middle and lower cross-veins ; fourth blackish brown, extending along the fore border from three-fourths of the length to the tip ; wing-ribs and veins tawny ; veins darker on the spots of the wings ; fourth longitudinal vein nearly straight, joining the border at the tip of the wing ; lower cross-vein with an extremely slight outward curve, forming a very obtuse angle with the fourth longitudinal vein ; scales tawny. Length of the body 5 lines ; of the veins 12 lines.

a. Philippine Isles. From Mr. Cuming's collection.

*CHROMATOMYIA jucunda*, n. s. *Ferruginea, scutello fulvo, abdomine purpureo-cyaneo, antennis ferrugineis, pedibus fulvis, tarsis apice nigris, alis limpidis apice fuscis, basi costa venarumque marginibus flavis.*

Body ferruginous : head thickly clothed with short tawny hairs ; face yellow : mouth ferruginous ; palpi tawny, beset with black bris-

gles : eyes pitchy ; feelers ferruginous, about half the length of the face ; third joint linear, rounded at the tip, full twice the length of the second ; bristle black, tawny towards the base, nearly thrice the length of the third joint, rather stout for about one-sixth of its length, very slender from thence to the tip : scutcheon tawny : abdomen obconical, purplish-blue, smooth, shining, a little shorter than the chest : legs tawny ; feet black towards the tips ; foot-cushions dull tawny : wings colourless, yellow at the base, on the fore borders and along the borders of the veins ; tips brown ; middle cross-vein slightly clouded with brown ; wing-ribs and veins tawny ; fourth longitudinal vein almost straight, joining the border a little below the tip of the wing ; lower cross-vein brown, slightly curved outward ; scales yellowish. Length of the body 4 lines ; of the wings 10 lines.

a. Mosquito River, New Holland. Presented by the Earl of Derby

*CHROMATOMYIA* Vella, n. s. *Ferruginea, scutello fulvo, abdomine purpureo-cyaneo, apice cyaneo-viridi, antennis pedibusque ferrugineis, femoribus posticis piceis, alis limpidis, fusco trimaculatis, basi costa venarumque marginibus flavis.*

Body ferruginous: head thickly clothed with short tawny hairs ; face and mouth ferruginous ; palpi tawny, beset with black bristles : eyes pitchy : feelers ferruginous, about half the length of the face ; third joint linear, rounded at the tip, full twice the length of the second ; bristles black, tawny towards the base, nearly thrice the length of the third joint ; rather stout for about one-sixth of its length, very slender from the base to the tip : scutcheons tawny : abdomen obconical, purplish blue, smooth, shining, a little shorter than the chest, bluish green towards the tip : legs ferruginous, clothed with short tawny hairs ; claws black ; hind thighs pitchy : wings colourless, yellow at the base, on the fore borders, and along the veins ; fore borders adorned with three brown spots ; the first large, descending from the middle of the fore border into the disk ; the second small, half-way between the first and the tip, which is clouded with the third ; middle cross-vein slightly clouded with brown ; wing-ribs and veins tawny ; veins pitchy towards the tips ; fourth longitudinal vein almost straight, joining the border a little below the tip of the wing ; lower cross-vein brown, slightly curved outward ; scales yellowish. Length of the body 4 lines ; of the wings 10 lines.

a. Musquito River, New Holland. Presented by the Earl of Derby.

**CHROMATOMYIA** *hilaris*, n. s. *Ferruginea, thoracis disco nigro, abdomine viridi-cyaneo, antennis fulvis, articulo 3<sup>o</sup> pedibusque ferrugineis, tarsis apice nigris, alis limpidis fusco quadrimaculatis basi fulvis.*

Head ferruginous, thinly clothed with short tawny hairs, tawny in front; face yellow: eyes pitchy; mouth and palpi black: feelers tawny, shorter than the face; third joint ferruginous, more than twice the length of the second, pitchy towards the tip; bristle black, tawny towards the base, full twice the length of the third joint, rather stout for about one-sixth of its length, very slender from thence to the tip: chest black, clothed with short tawny hairs; sides, breast, and scutcheon ferruginous; sides of the scutcheon purplish-blue: abdomen obconical, greenish blue, smooth, shining, a little shorter than the chest: legs ferruginous, clothed with short tawny hairs; feet black towards the tips; foot-cushions pale tawny: wings colourless, tawny at the base; fore borders adorned with four brown spots; the first irregular, near the base; second descending towards the disk; third like a dot; fourth at the tip; wing-ribs tawny; veins black, tawny at the base: fourth longitudinal vein almost straight, joining the border just below the tip of the wing, forming a slightly obtuse angle with the lower cross-vein, which is nearly straight; scales white. Length of the body 4 lines; of the wings 8 lines.

a. New Holland? Presented by the Entomological Club.

**CHROMATOMYIA** *apicalis*, n. s. *Ferruginea, thoracis disco abdomineque viridi, hujus apice scutelloque fulvis, antennis pedibusque fulvis, femoribus tibiisque nigro maculatis, alis limpidis, basi costaque subfulvis.*

Head ferruginous, with black marks on the crown, tawny about the peristoma; face large, yellow: eyes pitchy: sucker black; palpi tawny, beset with long black bristles: feelers tawny, a little shorter than the face; third joint full four times the length of the second, nearly linear, slightly tapering from the base to the tip which is rounded: bristle black, tawny at the base, nearly twice the length of the third joint: chest green, clothed with short tawny hairs; sides and breast ferruginous; scutcheon tawny, armed with black bristles, adorned with a green spot in the middle of the fore border: abdomen obconical, green, smooth, shining, clothed with tawny hairs, not longer than the chest, tawny at the tip: legs tawny, clothed with tawny hairs; a black mark on each thigh; knees pitchy; two black marks on each shank whose tips are also black; tips of feet ferruginous; foot-cushions pitchy; claws tawny with black tips: wings long, colourless, with a slight tawny tinge at the base, and along

the fore border; wing-ribs tawny; veins pitchy, tawny towards the base; middle cross-vein stout; fourth longitudinal vein nearly straight, forming a slightly obtuse angle with the lower cross-vein, joining the border hardly below the tip of the wing; lower cross-vein straight for half the length, and having thence to the tip a hardly perceptible outward curve; scales whitish, with yellow borders. Length of the body 3—4 lines; if the wings 7—9 lines.

a. West Australia. From Mr. Clifton's collection.

*CHROMATOMYIA læta*, n. s. *Cyaneo-viridis, capite ferrugineo, abdomine viridi, antennis ferrugineis, articulo 3<sup>o</sup> nigro, pedibus ferrugineis, femoribus anticis viridibus, tarsis anticis nigris, alis subcinereis basi costaque subfulvis.*

Head ferruginous, pitchy and roughly punctured on the crown, tawny in front, thinly clothed with tawny hairs; a few black bristles on the crown: eyes pitchy: sucker black, clothed with tawny hairs; palpi black, beset with tawny hairs: feelers ferruginous, nearly as long as the face; third joint black, about thrice the length of the second: chest and breast bluish green, clothed with short tawny hairs: chest shagreened; sides of the hinder part and the scutcheon beset with a few black bristles: abdomen obconical, green, shagreened, not longer than the chest, clothed with short tawny hairs: legs ferruginous; feet darker; claws black; foot-cushions pale tawny; fore thighs green; fore-shanks dark ferruginous; fore feet black: wings slightly gray, with a tawny tinge at the base and along the fore borders; wing-ribs tawny; veins black, tawny towards the base; cross-veins clouded with brown; fourth longitudinal vein nearly straight, but slightly bent at its junction with the cross-vein, joining the border at the tip of the wing; lower cross-vein straight for half the length, very slightly curved outward from thence to the tip; scales somewhat tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings, 5 lines.

a. New Holland. Presented by the Haslar Hospital.

*CHROMATOMYIA* ? *bicolor*, n. s., fem. *Cyanea, angusta, viridi et purpureo varia, capite fulvo, antennis piceis, pedibus nigris, alis limpidis fusco trimaculatis.*

Body narrow, clothed with black hairs, and with a few black bristles: head tawny; disk of the crown pitchy; epistoma not prominent; sides of the face without bristles: eyes pitchy; fore part nearly flat; its facets larger than those elsewhere: sucker black: feelers pitchy, as long as the face; third joint linear, slender, rounded at the tip, full six times the length of the second joint: chest



elliptical: chest and abdomen deep blue tinged with purple and green; abdomen long-obconical, a little longer and narrower than the chest: legs black, clothed with short black hairs: wings colourless, pale brown at the base, adorned with three brown spots, the first extends from the fore border into the disk beyond the little cross-vein, the second covers the lower cross-vein, the third occupies the tip; wing-ribs and veins black; little cross-vein very oblique; lower cross-vein slightly curved outward near the base, straight from thence to the tip; scales small, pale yellow; poisers black. Length of the body 4 lines; of the wings 9 lines.

a. Para. Presented by Gordon Graham, Esq.

*CHROMATOMYIA?* *distincta*, n. s., fem. *Cinereo-nigra, lata, capite ferrugineo, pedibus alisque nigris.*

Body broad: head ferruginous, large on each side of the peristoma; crown prominent in front; epistoma not prominent; sides of the face without bristles: eyes small, pitchy, very convex; facets extremely small: sucker black: chest and abdomen dull black tinged with gray: chest clothed with short black hairs, shining on each side of the front: abdomen obconical, as long and as broad as the chest: legs black, clothed with short black hairs and bristles; foot-cushions pitchy: wings black; wing-ribs and veins black; third longitudinal vein slightly angular at its junction with the lower cross-vein; scales small? poisers black. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

a. Monte Video. Presented C. Darwin, Esq.

### ZONA, n. g.

Sucker very large: palpi short: feelers much shorter than the face; third joint twice the length of the second; bristle downy: chest lengthened and tapering in front: abdomen short and broad: legs rather long: wings long and narrow; middle cross-vein very oblique, tip cross-vein forming a slightly obtuse angle with the longitudinal vein.

*ZONA violacea.* *Tephritis violacea*, G. R. Gray, *Griffith's Cur. Anim. King. Ins.* ii. pl. 128, f. 1.

a. ———?

*ZONA pictipennis*, n. s., fem. *Nigra, capite ferrugineo, abdomine cyaneo, palpis fulvis, antennis ferrugineis, pedibus nigris, alis subcinereis ad costam fuscis fluvoque trimaculatis, disco fasciis duabus fuscis.*

Head bright ferruginous; epistoma slightly prominent; sides of the face without bristles: eyes black; fore part convex, its facets a little larger than those elsewhere: sucker pitchy, large, tawny at the tip; palpi tawny, beset with a few black bristles: feelers ferruginous, much shorter than the face; third joint tapering from the base to the tip which is conical, about twice the length of the second joint; bristle downy, twice the length of the third joint: chest black, lengthened in front into a neck which is ferruginous: abdomen dark blue, but little longer than broad, shorter and much broader than the chest: legs black, rather long, clothed with short black hairs and bristles; foot-cushions pitchy; fore thighs armed beneath with five stout spines: wings gray, long and narrow, dark brown and adorned with three yellow spots along the fore border; two oblique and irregular brown stripes pass from the fore border towards the hind border, where they are widened and joined together; wing-ribs and veins pitchy; third longitudinal vein not extending beyond the slightly obtuse angle which it forms with the tip cross-vein, the latter is much curved inward near the base, but almost straight from thence to the tip, which joins the border at the tip of the wing; little cross-vein very oblique; lower cross-vein straight along half the length from the base, slightly curved outward from thence to the tip; scales large, white with pale yellow borders; poisers black. Length of the body 7 lines; of the wings 16 lines.

a. Nepal. From the Hardwicke bequest.

b. ———? From Mr. Children's collection.

### TRIGONOSOMA. *G. R. Gray.*

*TRIGONOSOMA perilampiformis*, *G. R. Gray, Griffith's Cuv. Anim. Kingd. Ins. ii. pl. 128, f. 2.*

a. ———?

### IDIA Meigen.

Group I. *Idia*, *Desv. Essai Myod. 419.*

*IDIA xanthogaster*, *Wied. Nov. Dipt. Gen. 21. Auss. Zweif. ii. 349, 2. Desv. Essai Myod. 420, 1. Jenson, Bull. Soc. Imp. Nat. Mosc. iv. 339. iv. 339.*

a. North Bengal. From Miss Campbell's collection.

b. ———?

**IDIA** *Procula*, n. s., fem. *Nigra, capite flavo-albo, thorace piceo, vittis quatuor cinereis, pectore chalybeo cupreoque vario, abdomine cupreo-nigro, lateribus cano maculatis, ventre basi fulvo, antennis pedibusque ferrugineis, femoribus nigris, alis sublimpidis basi subfuscis.*

Body black, clothed with black hairs and bristles: head adorned with a yellowish white covering, clothed beneath with white hairs; epistoma prominent; face hoary, its sides without bristles: eyes dark red: sucker black, clothed towards the tip with tawny hairs; palpi tawny, black and beset with black bristles towards the tip: feelers dark ferruginous, nearly as long as the face; third joint flat above, slightly convex beneath, truncated at the tip; bristle black, tawny towards the base, more than twice the length of the third joint: chest pitchy, adorned with four indistinct gray stripes; sides adorned with a pale tawny covering, which also adorns most part of the breast; the latter is tinged with steel and copper-colour; border of the scutcheon hoary: abdomen black, with a slight coppery tinge, nearly elliptical, a little broader and shorter than the chest; a large hoary spot on each side of every segment; underside tawny towards the base: legs black, clothed with black hairs and bristles; shanks and feet ferruginous; claws black; foot-cushions tawny: wings nearly colourless, pale brown at the base; wing-ribs pitchy; veins black, pitchy at the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, slightly waving from thence to the tip, joining the border just above the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; scales pale yellow. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

a. Africa? From Mr. Children's collection.

b. ———?

**IDIA** *fasciata*, Meig. *Dipt.* v. 9, 1, pl. 42, f. 14—17. Desv. *Essai Myod.* 422, 6. Macq. *Hist. Nat. Dipt.* ii. 246, 1. *I. lunatata*, var?

a. France.

**IDIA** *lunata*, Wied. *Auss. Zweif.* ii. 351, 6. *Musca lunata*, Fabr. *Syst. Antl.* 292, 44. Loew, *Ent. Zeit. Stettin* v. 19, 1.

a. ———?

#### Group II. *Rhinia*, Desv. *Essai Myod.* 422.

**IDIA** *testacea*, Macq. *Hist. Nat. Dipt.* ii. 246, 3. *Rhinia testacea*, Desv. *Essai Myod.* 423, 1.

a. Isle of France.

*IDIA australis*, fem. *Nigra, subtus flava, abdomine ferrugineo, palpis nigris, antennis ferrugineis, pedibus nigris, alis subcinereis ad costam fulvis apice fuscis.*

Head black and shining above, pale yellow, and clothed with pale yellow hairs beneath, ferruginous on each side of the peristoma, which is slightly prominent; sides of the face without bristles: eyes dark red; fore part flat, its facets not larger than those elsewhere: sucker and palpi black: feelers ferruginous, much shorter than the face; third joint linear, conical at the tip, full four times the length of the second; bristle tawny: chest black, dull, clothed with short black hairs: breast pale yellow, clothed with pale yellow hairs: abdomen pale ferruginous, elliptical, shining, a little broader but not longer than the chest, darker above towards the tip: legs black, clothed with black hairs and bristles; feet towards the base and foot-cushions pitchy: wings slightly gray, tawny along the fore borders, brown at the tips; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, joining the third longitudinal vein at a short distance from its tip; lower cross-vein straight at the base, slightly curved outward from thence to the tip; wing-ribs and veins tawny; scales pale yellow; poisers tawny. Length of the body  $3\frac{1}{2}$ —4 lines; of the wings 6—7 lines.

a. New Holland. Presented by the Haslar Hospital.

b. ———?

#### Group III. *Cosmina*, Desv. *Essai Myod.* 423.

*IDIA punctulata*, Wied. *Nov. Dipt. Gen.* 22. *Dipt. Exot.* ii. 348, 1. Jenson, *Bull. Soc. Imp. Nat. Mosc.* iv. 341. *Musca punctata*, Wied. *Zool. Mag.* iii. 21, 30. *Cosmina fuscipennis*, Desv. *Essai Myod.* 423, 1.

a. South Africa. Presented Dr. A. Smith.

#### Group IV. *Rhycomya*, Desv. *Essai Myod.* 424.

*IDIA felina*. *Musca felina*? *Fabr. M. ruficeps*? *Fabr. Syst. Antl.* 299, 77. *M. concinna*? *Germ. Faun.* x. 21. *Tachina ruficeps*, *Meig. Dipt.* iv. 319, 137. *Tachina columbina*, *Meig. Dipt.* iv. 319. *Rhycomya felina*, Desv. *Essai Myod.* 424, 1. *R. ruficeps*, *Macq. Hist. Nat. Dipt.* ii. 247, 1. *B. columbina*? *Macq. Hist. Nat. Dipt.* ii. 248. *Idia concinna*, *Loew, Ent. Zeit. Stett.* v. 20, 2. *I. speciosa*? *Loew, Ent. Zeit. Stett.* v. 23, 3.

a. Albania. From Mr. Walker's collection.

b. ———?

*IDIA obsoleta*, Wied. *Auss. Zweif.* ii. 355, 12.

a. China. Presented by G. T. Lay, Esq.

*IDIA* Chrysippe, n. s., fem. *Viridis, micans, thoracis lateribus cyaneo purpureoque variis, scutello purpureo, abdomine aureo-viridi, antennis palpisque fulvis, pedibus ferrugineis, tarsis piceis, alis limpida basi fulvis.*

Body beset with a few black hairs and bristles: head emerald green, slightly covered with white bloom, tawny on the crown, paler in front, adorned with golden bloom on each side of the face, clothed beneath with short yellow hairs; a broad pitchy furrowed stripe fringed with bristles between the eyelets and the feelers: sides of the face fringed with bristles at the base; epistoma very prominent, pale ferruginous, green towards the base; eyes dark red, convex; all the facets small: sucker black, pitchy and clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: feelers tawny, shorter than the face; third joint more than twice the length of the second, brown above: chest green, bluish and tinged with purple on each side; scutcheon, excepting the base, intense purple: abdomen golden-green, obconical, shorter than the chest, bluish green towards the base: legs ferruginous; feet pitchy; foot-cushions tawny: wings colourless, tawny at the base; wing-ribs and veins tawny; veins black towards the tips; tip cross-vein a little without the perpendicular to the fourth longitudinal vein, with which it is rounded at the junction, curved outward at the base, and having a slight inward curve from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two long and almost imperceptible curves, the lower inward, the upper outward; scales slightly gray, with pale tawny borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 10 lines.

a. ———?

### MESEMBRINA, Meigen.

*MESEMBRINA meridiana*, Meig. *Dipt.* v. 11, 1, pl. 42, f. 25. *Descr. Essai Myod.* 401, 1. *Macq. Hist. Nat. Dipt.* ii. 274, 2, pl. 16, f. 19. *Zett. Ins. Lapp.* 652, 2. *Dipt. Scand.* iv. 1343, 2. *Musca meridiana*, Linn. *Syst. Nat.* ii. 989. *Faun. Suec.* 1827. *Gmel. Ed. Syst. Nat.* i. 5, 2838, 63. *Fabr. Sp. Ins.* ii. 435, 3. *Ent. Syst.* iv. 312, 2. *Syst. Antl.* 284, 3. *Deg. Ins.* vi. 55, 2. *Schrank, Ins. Austr.* 454, 922. *Faun. Boic.* iii. 2480. *Panz. Faun. Germ.* x. 17. *Fall. Musc.* 51, 30. *Reaum. Ins.* vi. pl. 12, f. 12, pl. 26, f. 6—10. *Harr. Ex.* 37, pl. 9, f. 9. *Geoff. Ins.* ii. 495, 5. *Schæff. Icon. pl.* 108, f. 7? *Herbst. Gem. Nat.* viii. 108, 11, pl. 340. *Stew. El.* ii. 257. *Turt.* iii. 597.

*Don.* xiv. 16, *pl.* 471, *f.* 2. *Wood, Linn. Gen. Ins.* ii. 90  
*pl.* 65.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

MESEMBRINA *Latreillii*, *Desv. Essai Myod.* 401, 2.

b. Nova Scotia. From Lieut. Redman's collection.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by  
G. Barnston, Esq.

MESEMBRINA *mystacea*, *Meig. Dipt.* v. 12, 2, *pl.* 42, *f.* 26. *Desv.*  
*Essai Myod.* 401, 3. *Macq. Hist. Nat. Dipt.* ii. 273, 1. *Zett.*  
*Ins. Lapp.* 651, 1. *Dipt. Scand.* iv. 134, 1. *Musca mystacea*,  
var. a. *Linn. Faun. Succ.* 1793. *Fall. Musc.* 50, 29. *M. bom-*  
*bylius*, *Deg. Ins.* vi. 58, 1, *pl.* 8, *f.* 1—3. *M. bombyloides*,  
*Herbst. Gem. Nat.* viii. 106, 6, *pl.* 340. *Syrphus apiarius*,  
*Fabr. Ent. Syst.* iv. 280, 9. *S. apiformis*, *Panz. Faun. Germ.*  
91, 20. *Eristalis apiarius*, *Fabr. Syst. Anth.* 231, 1.

a. Lapland. Presented by J. R. Crowe, Esq.

b. Alten, Finmark. Presented by F. Walker, Esq.

c. Finmark. From Mr. Children's collection.

d. ——— ? From Mr. Children's collection.

e. Haparanda. From Mr. Walker's collection.

f. Furea, Switzerland. From Mr. Walker's collection.

g. ——— ?

### SARCOPHAGA, *Meigen*.

Group I. *Peckia*, *Desv. Essai Myod.* 335.

Group II. *Theria*, *Desv. Essai Myod.* 337.

Group III. *Myophora*, *Desv. Essai Myod.* 337.

#### \* *Fulvo terminatæ*.

SARCOPHAGA *jejuna*, n. s., fem. *Nigra, capite aureo micante, thoracis vittis quatuor scutellique margine pallidè fulvis, illius lateribus aureo vittatis, abdominis apice fulvo, ventre cano vittato, antennis pedibusque nigris, illorum articulo 3º piceo, pedibus nigris, alis subcinereis basi et ad costam fuscis.*

Body black, clothed with black hairs and bristles: head bright gold colour; face paler, its sides black, fringed at the base with bristles; hinder head dull pale tawny: epistoma hardly prominent: eyes pitchy: sucker black, pitchy and clothed with tawny hairs to-

wards the tip; palpi black, beset with black bristles: feelers black, shorter than the face; third joint pitchy, rather deep, very slightly convex above and beneath, rounded at the tip; bristle black, more than twice the length of the third joint, having a very short joint at the base, feathered for full half its length: chest adorned with four pale tawny stripes, and on each side with a golden stripe; breast partly clothed with dull pale tawny bloom; scutcheon and sides of the chest armed with black bristles; sides and hind border of the scutcheon pale tawny: abdomen oval, deep black, clothed with short black hairs, armed towards the tip with a few black spines, rather shorter but not broader than the chest, bright tawny at the tip, and having a hoary stripe along the whole length beneath: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings slightly gray, brown at the base and along nearly half the length of the fore borders; wing-ribs and veins black; shoulders yellow; middle cross-vein clouded with brown; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip; lower cross-vein very slightly curved inward till near the tip, where it is more slightly curved outward; scales dark gray, with brown borders. Length of the body 8 lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

*SARCOPHAGA* *redux*, n. s., fem. *Nigra, cano vestita, thoraci vittis tribus cinereis, abdomine maculis canis quadrivittato, apice pallide rufo, antennis piceis, pedibus nigro-ferrugineis, tarsis nigris, alis limpidis.*

Body black, clothed with black hairs and bristles: head adorned with a hoary covering; a black furrowed stripe fringed with bristles between the eyelets and the feelers; epistoma not prominent; sides of the face fringed with bristles at the base: eyes bright red: sucker dark tawny: palpi black, beset with black bristles: feelers pitchy, a little shorter than the face; third joint linear, truncated at the tip, nearly thrice the length of the second joint: chest and breast hoary: chest adorned with three gray indistinct stripes, the middle one slender: abdomen oval, gray, a little broader but not longer than the chest, adorned with hoary reflections, which are disposed on each side in two rows of large irregular spots, the middle being occupied by a slender black stripe; tip pale red: legs black, clothed with black hairs and bristles; thighs and shanks very dark ferruginous, covered with gray, which has a tawny tinge; foot-cushions pitchy: wings colourless; wing-ribs tawny; veins pitchy, tawny towards the base; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, much curved inward near the base, straight

from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, rather more distinct than the other, which is outward; scales white, with pale yellow borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Cape. Presented by the Earl of Derby.

*SARCOPHAGA prædo*, n. s., fem. *Nigra, capite flavo-fulvo, thoraci vittis quatuor canis, abdomine maculis albis quadrivittato, apice rufo, antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head dark tawny above, yellow in front, clothed beneath with pale yellow hairs; a black stripe fringed with bristles between the eyelets and the feelers; epistoma slightly prominent; sides of the face fringed with bristles at the base; eyes red: palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint full thrice the length of the second flat above, slightly convex beneath, rounded at the tip; bristle about twice the length of the third joint, feathered with long hairs till near the tip: chest adorned with four hoary stripes: breast mostly gray: abdomen obconical, a little broader, but not longer than the chest, adorned with white reflections, which are disposed in four rows of irregular spots; tip red with a yellow covering: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; shoulders yellow; wing-ribs and veins black; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, slightly curved inward at the base, almost straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales whitish with yellowish white borders. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. ——— ?

*SARCOPHAGA vorax*, n. s., fem. *Nigra, capite albo, thoraci vittis quatuor scutello pectoreque canis, abdomine maculis fulvo-canis quadrivittato, apice fulvo, antennis pedibusque nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head adorned with a white silky covering; a black stripe fringed with bristles between the eyelets and the feelers: eyes pitchy: sucker and palpi black, the latter beset with black bristles: epistoma not prominent: feelers black, a little shorter than the face; third joint more than four times the length of the second, nearly linear, but slightly



decreasing in depth from the base to the tip, which is slightly truncated; bristle more than twice the length of the third joint, feathered for less than two-thirds of its length: chest tinged with gray, adorned with four broad hoary stripes, the middle pair double; scutcheon hoary with a black stripe in the middle, and a tawny tinge along the hind border; breast hoary: abdomen oval, a little broader but not longer than the chest, adorned with hoary reflections which have a very slight tawny tinge, and are disposed on each side in two rows of large irregular spots, the middle being occupied by a slender black stripe; tip tawny: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray: wings nearly colourless; shoulders yellow; wing-ribs pitchy; veins black, pitchy at the base; scales white, with yellowish-white borders. Length of the body 5 lines; of the wings 10 lines.

a. Cape.

SARCOPHAGA Thornax, n. s., fem. *Cinerea, capite aureo, thorace, vittis tribus flavo-fuscis ornato, pectore cano, abdomine fulvoo apice fulvo, palpis antennisque nigris, pedibus nigro-ferrugineis, tarsis nigris, alis subcinereis.*

Body clothed with black hairs and bristles: head bright golden, gray beneath and behind; a black stripe between the eyelets and the feelers; epistoma not prominent: face hoary, its sides fringed with black bristles along half the length: eyes red; fore part flat, its facets larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs at the tip; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, rounded at the tip, full four times the length of the second; bristle feathered for more than half the length from the base: chest gray, adorned with three yellowish brown stripes: breast hoary; abdomen hoary, obconical, a little broader, but not longer than the chest, adorned with tawny reflections which are most apparent towards the tip, the latter is tawny and covered with golden bloom: legs dark ferruginous, clothed with black hairs and bristles; feet black; foot-cushions tawny: wings slightly gray; shoulders pale yellow: wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a right angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein slightly curved inward near the base, straight from thence to the tip; scales white with pale yellow borders. Length of the body  $3\frac{1}{2}$  lines: of the wings 8 lines.

a. ——— ?

## \* \* Rufotermminatæ.

## † Fulvovittatæ.

*SARCOPHAGA immanis*, n. s., fem. *Nigra, capite aureo, thoracis vittis quatuor, scutellique margine fulvis, abdominis segmentorum marginibus anticis subcanis, apice fulvo vestito, antennis nigropiceis, pedibus nigris, alis subcinereis basi fulvis.*

Body black, clothed with short black hairs: head golden thickly clothed beneath with pale tawny hairs; a pitchy stripe fringed with bristles between the eyelets and the feelers, sides of the face pitchy, fringed with bristles for more than half the length, the bristles increasing in length to the base; epistoma tawny, rather prominent; eyes dark red, fore part flat, its facets a little larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi pitchy with ferruginous tips, beset with black bristles: feelers pitchy, a little shorter than the face; bristle pitchy; feathered nearly to the tip, much longer than the third joint: chest adorned with four tawny stripes which are partly gilded: breast covered with tawny bloom; scutcheon and sides of the chest armed with black spines; sides and hind border of the scutcheon pale tawny: abdomen obconical, not longer, but much broader than the chest, armed with black spines towards the tip, which is covered with tawny bloom; fore borders of the segments somewhat hoary: legs black, clothed with short black hairs; knees ferruginous; shanks armed on the outer side with black spines; foot-cushions pale tawny: wings slightly gray, tawny at the base; shoulders yellow; wing-ribs tawny; veins pitchy, black towards the tips; tip cross-vein forming a very acute angle with the fourth longitudinal vein, much curved inward at the base, straight from thence to the tip; lower cross-vein nearly straight till towards the tip, where it is curved outward, very slightly clouded with brown; scales whitish, with pale tawny borders. Length of the body 9 lines; of the wings 18 lines.

a. Honduras. From Mr. Dyson's collection.

*SARCOPHAGA cruentata*, Meig. *Dipt.* v. 28, 23. Macq. *Hist. Nat. Dipt.* ii. 225, 6. Zett. *Dipt. Scand.* iv. 1298, 18. *S. ruficauda*, Zett. *Ins. Lapp.* 650, 4.

a. ——— ?

*SARCOPHAGA hæmorrhœa*, Meig. *Dipt.* v. 29, 24. Macq. *Hist. Nat. Dipt.* ii. 225, 7. Zett. *Dipt. Scand.* iv. 1298, 19. *Myophora hæmorrhœa*, Desv. *Essai Myod.* 344, 21.

a. France?

**SARCOPHAGA ingens**, n. s., fem. *Nigra, capite aureo, thoraci vittis quatuor, scutello pectoreque fulvis, abdomine maculis cinereis quadrivittato, apice fulvo, antennis piceis, articulo 3<sup>o</sup> basi ferrugineo, pedibus nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with a gold covering, clothed beneath with yellow hairs; a black stripe between the eyelets and the feelers; epistoma tawny, not prominent; sides of the face fringed with bristles at the base: eyes red: sucker black, pitchy and clothed with tawny hairs towards the tip; palpi black, beset with black bristles: feelers pitchy, about two-thirds of the length of the face; third joint ferruginous at the base, slightly convex above and beneath, almost truncated at the tip; bristle black, full twice the length of the third joint, feathered for more than two-thirds of its length: chest adorned with four pale tawny stripes; border of the scutcheon, and most part of the breast pale tawny: abdomen obconical, a little broader, but not longer than the chest, adorned with gray reflections which are disposed in four rows of large irregular spots; penultimate segment ferruginous towards the tip; last segment tawny: legs black, clothed with black hairs and bristles; thighs slightly tinged with gray; foot-cushions tawny: wings slightly gray; shoulders yellow; wing-ribs pitchy; veins black, pitchy at the base; tip cross-vein forming a little less than a right angle with the fourth longitudinal vein, much curved inward at base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, less distinct than the other, which is outward; scales dingy white with pale yellow borders. Length of the body  $5\frac{1}{2}$  lines; of the wings 11 lines.

a. ——— ? From Mr. Children's collection.

**SARCOPHAGA musca.** *Myophora musca*, Desv. *Essai Myod.* 363, 70.

a. New Holland. Presented by the Haslar Hospital.

**SARCOPHAGA lineata**, Meig. *Dipt.* v. 26, 17. *Zett. Dipt. Scand.* iv. 1294, 14. *Musca lineata*, Fall. *Musc.* 40, 5.

a. France?

**SARCOPHAGA inops**, n. s. fem. *Nigra, capite aureo, thoraci vittis quatuor auratis, scutelli margine postico pectoreque canis, abdomine cyaneo-nigro maculis canis quadrivittato, apice obscure rufo, antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles, head adorned with a bright golden covering; a black stripe fringed with bristles

between the eyelets and the feelers; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes red: sucker black, pitchy and clothed with tawny hairs towards the tip; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint nearly linear, flat above, very slightly convex beneath, rounded at the tip, more than thrice the length of the second joint; bristle more than twice the length of the third joint, feathered till near the tip: chest adorned with four gilded stripes, these become paler as they approach the scutcheon which has a hoary border: breast hoary, golden on each side: abdomen oval, bluish black, a little broader but hardly longer than the chest; each segment adorned with four large hoary spots, underside grayish; tip dark red: legs black, clothed with black hairs and bristles; thighs slightly gray; foot-cushions pitchy: wings gray; shoulders yellow; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein forming an acute angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, rather more distinct than the other, which is outward; middle cross-vein clouded with brown; scales white, with pale yellow borders. Length of the body 6 lines; of the wings 11 lines.

a. ———? From Mr. Children's collection.

*SARCOPHAGA stimulans*, n. s., fem. *Nigra, capite supra aureo, thoraci vittis quatuor scutello lateribus pectoreque canis, abdomine maculis canis quadrivittato, apice pallide rufo, antennis pedibusque nigris, illorum articulo 3<sup>o</sup> apice rufo, alis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with a pale golden covering, hoary behind, beneath and on the face, whose sides are fringed with bristles at the base; a gray stripe between the eyelets and the feelers; epistoma tawny, not prominent: eyes red: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; second joint red at the tip above; third more than twice the length of the second; flat above, very slightly convex beneath, truncated at the tip; bristle more than twice the length of the third joint, feathered for near two-thirds of its length: chest adorned with four hoary stripes; inner pair double; sides, scutcheon, and breast hoary: abdomen nearly elliptical, a little shorter and broader than the chest, adorned with hoary reflections, which are disposed in four rows of large irregular spots; tip pale red: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions pale tawny: wings slightly gray: shoulders and wing-ribs

tawny; veins black, tawny at the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, slightly curved inward at the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein slightly curved inward near the base, straight from thence to the tip; scales white. Length of the body  $2\frac{3}{4}$  lines; of the wings  $5\frac{1}{2}$  lines.

*a.* North America? Presented by the Entomological Club.

*SARCOPHAGA rapax*, n. s., fem. *Nigra, capite argenteo, thoraci vittis quatuor lateribus scutello pectoreque cinereis, abdomine maculis fulvo-cinereis quadrivittato, apice ultimo rufo, antennis pedibusque nigris, tibiis piceis, alis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with silvery lustre; a black stripe fringed with bristles between the eyelets and the feelers; epistoma not prominent; sides of the face fringed with bristles at the base: eyes pitchy: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, as long as the face; third joint about twice the length of the second, flat above, very slightly convex beneath, rounded at the tip; bristle more than twice the length of the third joint, feathered for two-thirds of its length: chest adorned with four gray stripes; sides, breast, and scutcheon gray: abdomen nearly elliptical, a little shorter and broader than the chest, adorned with gray reflections, which have a slight tawny tinge, and are disposed in four rows of large irregular spots; extreme tip red: legs black, clothed with black hairs and bristles; shanks pitchy; foot-cushions tawny: wings slightly gray; shoulders and wing-ribs tawny; veins black, pitchy at the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, slightly curved inward at the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein nearly straight; scales white. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

*a.* North America? Presented by the Entomological Club.

*SARCOPHAGA anxia*, n. s., fem. *Nigra, capite aurco, thoraci vittis quatuor scutello pectoreque canis, abdomine maculis fulvo-canis quadrivittato, apice rufo, antennis pedibusque nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head adorned with a golden covering; a black stripe fringed with bristles from the eyelets to the feelers; peristoma and epistoma ferruginous; epistoma not prominent: eyes red: sucker pitchy, clothed with taw-

ny hairs; palpi black, slender, beset with black bristles: feelers black, nearly as long as the face; third joint linear, obliquely truncated at the tip, thrice the length of the second joint; bristle more than twice the length of the third joint, feathered for less than two-thirds of its length: chest adorned with four hoary stripes; inner pair double; scutcheon and breast hoary: abdomen nearly elliptical, shorter and a little broader than the chest, adorned with hoary reflections, which have a slight tawny tinge, and are disposed in four rows of large irregular spots; tip pale red: legs black, clothed with black hairs and bristles; thighs tinged with gray; foot-cushions tawny: wings nearly colourless; shoulders tawny; wing-ribs pitchy; veins black; tip cross-vein forming a right angle with the fourth longitudinal vein, slightly curved inward at the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, more distinct than the other, which is outward; scales white, with yellowish white borders. Length of the body  $2\frac{3}{4}$ —3 lines; of the wings 6—6 $\frac{1}{2}$  lines.

a. North America? Presented by the Entomological Club.

*SARCOPHAGA importuna*, n. s., fem. *Nigra, capite cano, thoraci vittis quatuor lateribus scutello pectoreque canis, abdomine maculis fulvo-canis quadrivittato, apice rufo, antennis pedibusque nigris, tibiis piceis, alis subcinereis.*

Body black, clothed with black hairs and bristles: head hoary; a gray stripe between the feelers and the eyelets; epistoma not prominent; sides of the face fringed with bristles at the base: eyes red: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, shorter than the face; tip of the second joint red above; third joint more than twice the length of the second, flat above, very slightly convex beneath, truncated at the tip; bristle much more than twice the length of the third joint, feathered for full two-thirds of its length: chest adorned with four hoary stripes, which occupy nearly the whole of the back; inner pair double; sides, scutcheon, and breast hoary: abdomen oval, a little broader but not longer than the chest, adorned with hoary reflections, which have a slight tawny tinge, and are disposed in four rows of large irregular spots; tip red: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; shanks pitchy; foot-cushions pale tawny: wings slightly gray; shoulders tawny; wing-ribs pitchy; veins black; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing;

lower cross-vein with two very slight curves, the lower inward, the other outward; scales white, with pale yellow borders. Length of the body 3 lines; of the wings 6 lines.

a. North America? Presented by the Entomological Club.

†† *Cano-vittatæ*.

*SARCOPHAGA hæmorrhoidalis*, *Meig. Dipt. v.* 28, 22. *Macq. Hist. Nat. Dipt. ii.* 224, 5. *Zett. Dipt. Scand. iv.* 1297, 17. *Harr. Ex. pl.* 25, f. 14. *Musca*, &c., *Geoff. Ins. ii.* 527, 65. *M. hæmorrhoidalis*, *Fall. Musc.* 39, 2. *Myophora hæmorrhoidalis*, *Desv. Essai Myod.* 340, 7.

a. England.

b. France.

c. Malta.

d. ———? From Mr. Children's collection.

*SARCOPHAGA plinthopyga*, *Wied. Auss. Zweif. ii.* 360, 10. *Walker, Linn. Trans. xvii.* 352, 57.

a. Demerara. Presented by J. S. Bowerbank, Esq.

b. Jamaica. From Mr. Gosse's collection.

c. Nova Scotia. From Lieut. Redman's collection.

*SARCOPHAGA mauritiana*, *Macq. Dipt. Exot. ii.* 2, 99, 5.

a. Isle of France.

*SARCOPHAGA affinis*, *Meig. Dipt. v.* 30, 27, pl. 43, f. 10. *Zett. Dipt. Scand. iv.* 1293, 13. *Musca affinis*, *Fall. Musc.* 39, 4. *Agria punctata?* *Desv. Essai Myod.* 377, 1. *A. affinis?* *Macq. Hist. Nat. Dipt. ii.* 229, 1, pl. 16, f. 3.

a. ———? From Mr. Children's collection.

*SARCOPHAGA hæmatodes*, *Meig. Dipt. v.* 29, 25. *Macq. Hist. Nat. Dipt. ii.* 225, 8. *Zett. Ins. Lapp.* 650, 5. *Dipt. Scand. iv.* 1299, 20. *Musca hæmorrhoidalis*, *Fall. Musc.* 39, 2. *Genuina.*

a. ———? From Mr. Children's collection.

*SARCOPHAGA ruficornis*, *Wied. Auss. Zweif. ii.* 358. *Musca ruficornis*, *Fabr. Ent. Syst. iv.* 314, 6. *Syst. Antl.* 287, 12. *Myophora fulvicornis*, *Desv. Essai Myod.* 341, 12.

a. North Bengal. From Miss Campbell's collection.

b. ———?

*SARCOPHAGA Africa*, *Wied. Anal. Entom.* 49, 103. *Auss. Zweif. ii.* 356, 3.

a. South Africa. Presented by Dr. A. Smith.

b. Sierra Leone. Presented by the Rev. D. F. Morgan.

**SARCOPHAGA ægra**, n. s., fem. *Nigra, capite flavo-albo vestito, thoraci vittis quatuor scutelloque fulvo-canis, pectore cinereo, abdomine maculis fulvo-canis quadrivittato, antennis pedibusque nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head adorned with a yellowish white covering, clothed beneath with hoary hairs; a black stripe fringed with bristles between the eyelets and the feelers; epistoma pale yellow, not prominent; sides of the face fringed with bristles at the base: eyes pitchy; fore part nearly flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, shorter than the face; third joint flat above, very slightly convex beneath, rounded at the tip; bristle more than twice the length of the third joint, feathered for two-thirds of its length: chest adorned with four hoary bands, which have a slight tawny tinge; inner pair single; scutcheon of the above-mentioned colour, slightly tawny at the tip; breast gray: abdomen oval, a little broader, but not longer than the chest, adorned with hoary reflections, which have a slight tawny tinge, and are disposed in four rows of irregular spots: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions pitchy: wings nearly colourless; shoulders yellow; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, much curved inward at the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with three curves, the lower outward and very slight, the second distinct and inward, the third slight and outward; scales white, with pale tawny borders. Length of the body 5 lines; of the wings 10 lines.

a. Massachusetts. From Professor Sheppard's collection.

**SARCOPHAGA collinaris**. *Myophora collinaris*, Deso. *Essai Myod.* 345, 26.

a. France.

**SARCOPHAGA, querula**, n. s., mas. *Nigra, capitis lateribus ferrugineis, thoraci vittis quatuor scutello pectoreque cinereis, abdomine maculis canis quadrivittato, antennis piceis, pedibus nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head ferruginous on each side of the face, with a hoary tinge beneath; disk of the face white, its sides fringed with bristles at the base; epistoma somewhat tawny, not prominent: eyes pitchy: sucker black, clothed towards the tip with tawny hairs; palpi black, beset with



black bristles: feelers pitchy, shorter than the face; third joint about thrice the length of the second, flat above, very slightly convex beneath, rounded at the tip; bristle black, feathered for near two-thirds of its length, about twice the length of the third joint: chest adorned with four gray stripes; middle pair double: scutcheon and breast gray; disk of the former black: abdomen oval, as long as the chest, but broader, adorned with hoary reflections, which are disposed in four rows of large irregular spots; tip red: legs black, clothed with black hairs and bristles; foot-cushions dark pitchy: wings slightly gray; shoulders tawny; wing-ribs pitchy; veins black; tip cross-vein forming a little less than a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein almost straight, but having two very indistinct curves, the lower inward, the other outward; scales dingy white, with pale yellow borders. Length of the body 3—4 lines; of the wings 6—8 lines.

a. North America? Presented by the Entomological Club.

*SARCOPHAGA avida*, n. s., fem. *Nigra, capite aureo subtus cano, thoraci vittis quatuor scutelloque fulvo-canis, abdomine maculis canis fulvo auroque micantibus quadriovato, apice rufo, antennis pedibusque nigris, alis limpidis.*

Body black, clothed with black hairs and bristles: head with a golden tawny covering, hoary beneath; a broad black slightly furrowed stripe between the eyelets and the feelers; face dark gray; its sides somewhat ferruginous, fringed with bristles at the base: sucker black, clothed with tawny hairs; palpi black, beset with black bristles; eyes red: feelers black, nearly as long as the face; second joint ferruginous at the tip; third linear, rounded at the tip, nearly twice the length of the second; bristle much more than twice the length of the third joint, feathered along half its length from the base: chest adorned with four broad hoary stripes, which have a tawny tinge; the middle pair double: breast mostly hoary; scutcheon hoary with a tawny tinge, armed with some long black spines: abdomen elliptical, shining, not longer than the chest, tessellated with four rows of irregular spots of hoary lustre, these spots are tawny in some parts, and have a golden hue on each side; tip of the abdomen bright pale red; underside hoary: legs black; clothed with black hairs and bristles; foot-cushions tawny; a slight hoary tinge on the thighs, and on the shanks: wings colourless; shoulders tawny; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein forming hardly more than a right angle with the fourth longitudinal vein, slightly curved inward near the base, almost straight

from thence to the tip, joining the border at a short distance above the tip of the wing; lower cross-vein with a very short and slight outward curve at the base, this is succeeded by a long but hardly perceptible outward curve which continues till near the tip, where there is an equally slight outward curve; scales white, with pale yellow borders; poisers tawny. Length of the body 4 lines; of the wings 8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*SARCOPHAGA rediviva*, n. s., fem. *Nigra, capite antico aureo, thoraci vittis quatuor canis, pectore cinereo, abdomine maculis fulvo-canis quadrivittato, apice rufo, antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head golden in front; epistoma not prominent; sides of the face fringed with bristles at the base; eyes dark red: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint about thrice the length of the second, slightly increasing in depth from the base to the tip, which is rounded; bristle about twice the length of the third joint, feathered for near two-thirds of its length: chest adorned with four hoary stripes; inner pair double: breast gray; abdomen elliptical, a little longer than the chest, adorned with hoary reflections which have a tawny tinge, and are arranged in four rows of large irregular spots; tip red: legs black, clothed with black hairs and bristles; thighs tinged with gray; foot-cushions tawny: wings slightly gray; shoulders pale yellow; wing-ribs pitchy; veins black, pitchy at the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, much longer than the other, which is outward; scales pale gray, with tawny borders. Length of the body 4 lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SARCOPHAGA rabida*, n. s., fem. *Nigra, capite pallide aureo, thoraci vittis quatuor scutello pectoreque canis, abdomine maculis canis quadrivittato apice rufo, antennis piceis articulis 2<sup>o</sup> apice 3<sup>o</sup>que basi ferrugineis, pedibus nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head adorned with a pale gold covering; a black stripe fringed with bristles between the eyelets and the feelers; epistoma not prominent; sides of the face fringed with bristles at the base: eyes dark red: sucker

ferruginous, clothed with tawny hairs, palpi pitchy, beset with black bristles : feelers pitchy, shorter than the face ; second joint at the tip, and third at the base, ferruginous ; third linear, truncated at the tip, about twice the length the second ; bristle tawny, black and stout for more than one-third of the length from the base, feathered till near the tip, almost twice the length of the third joint : chest adorned with four hoary stripes ; the inner pair double, narrower than the outer pair ; breast and scutcheon mostly hoary : abdomen nearly elliptical, a little broader, but not longer than the chest, tessellated with hoary reflections, which are disposed in four rows of irregular spots ; underside mostly hoary ; tip—especially beneath—bright red : legs black, clothed with black hairs and bristles ; thighs tinged with gray ; foot-cushions pale tawny : wings nearly colourless, with a pale yellow tinge at the base ; shoulders and wing-ribs tawny ; veins black, tawny towards the base ; tip cross-vein forming a nearly right angle with the fourth longitudinal vein, slightly curved inward at the base, straight from thence to the tip, joining the border at a short distance above the tip of the wing ; lower cross-vein with two very slight curves, the lower inward and hardly perceptible, the other outward ; scales white. Length of the body 4 lines ; of the wings 8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*SARCOPHAGA acerba*, n. s., fem. *Nigra, capite supra subaureo, thoraci vittis quatuor scutello pectoreque canis, abdomine maculis pallide fulvis quadrivittato, antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles : head adorned with very pale golden colour, hoary and partly clothed with pale yellow hairs beneath ; a black stripe fringed with bristles between the eyelets and the feelers ; face fringed with hairs at the base : epistoma tawny, slightly prominent : eyes dark red : sucker black, clothed with tawny hairs ; palpi black, beset with black bristles : feelers black, nearly as long as the face ; third joint flat above, very slightly convex beneath, truncated at the tip, more than twice the length of the second joint ; bristle full twice the length of the third joint, stout for one-third, and feathered for two-thirds of its length : chest adorned with four hoary stripes, the inner pair double, narrower than the outer pair ; scutcheon and breast mostly hoary : abdomen nearly elliptical, broader and a little longer than the chest, adorned with pale tawny reflections, which are disposed in four rows of irregular spots ; tip red : legs black, clothed with black hairs and bristles ; foot-cushions pitchy : wings gray ; shoulders dark tawny : wing-ribs

pitchy; veins black, pitchy towards the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, almost straight or with a very slight outward inclination from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, longer and less distinct than the other, which is outward; scales gray, with dull tawny borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*SARCOPHAGA aspera*, n. s., fcm. *Cinereo-nigra, thoraci vittis quatuor scutelloque canis, abdomine maculis canis ad apicem fulvescentibus quadrivittato, apice rufo, antennis piceis, articulo 3<sup>o</sup> basi ferrugineo, pedibus nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head tinged beneath with grayish tawny; epistoma somewhat tawny, not prominent; sides of the face fringed with bristles at the base: eyes bright red: sucker black, clothed at the tip with tawny hairs; palpi black, club-shaped, beset with black bristles: feelers pitchy; third joint more than twice the length of the second, ferruginous at the base, flat above, very slightly convex beneath, rounded at the tip; bristle black, feathered for near two-thirds its length, more than twice the length of the third joint: chest adorned with four broad hoary stripes; the inner pair double; scutcheon hoary; breast gray: abdomen nearly elliptical, a little shorter and broader than the chest, adorned with hoary reflections, which have a tawny tinge towards the tip, and are disposed in four rows of large irregular spots; tip red: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions tawny: wings slightly gray: shoulders and wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a hardly obtuse angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein hardly curved outward at the base, straight from thence till near the tip, when it is rather more distinctly curved outward; scales dingy white, with pale yellow borders. Length of the body  $2\frac{1}{2}$ — $3\frac{1}{2}$  lines; of the wings 5—7 lines.

Var. —? Eyes pitchy.

a. North America? Presented by the Entomological Club.

**SARCOPHAGA** *violenta*, n. s., fem. *Nigra, capite supra nigro-fusco, thorace vittato, abdomine cano-nigro tessellato, palpis nigris, antennis piceis basi ferrugineis, pedibus nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head dark brown above, adorned with hoary lustre, clothed behind and beneath with hoary hairs; a pitchy stripe widening from the eyelets to the feelers; epistoma white, slightly prominent; face white, its sides beset with a few bristles along half the length: eyes pitchy; fore-part flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi long, black: feelers nearly as long as the face; first and second joints ferruginous; third joint pitchy, linear, almost truncated at the tip, full four times the length of the second; bristle black, feathered for half the length, twice the length of the third joint: chest and breast hoary; chest striped: abdomen obconical, hoary, longer and narrower than the chest, adorned with a black stripe; hind borders of the segments also black; an interrupted black stripe on each side; a few black spines towards the tip, which is red: legs black, clothed with black hairs and bristles; thighs slightly hoary; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black; tip cross-vein forming a right angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward, the other outward; scales whitish, with pale yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Galapagos. Presented by C. Darwin, Esq.

\*\*\* *Nigro-terminatae.*

† *Fulvo-vittatae.*

**SARCOPHAGA** *prædatrix*, n. s., fem. *Nigra, capite thoracique vittis quatuor fulvis, pectore pilis fulvis vestito, abdomine fulvo tessellato, antennis pedibusque nigris, illorum articulo 3<sup>o</sup> piceo, alis subcinereis basi flavis.*

Body black, clothed with black hairs and bristles: head pale tawny, clothed in front and beneath with pale tawny hairs; a black stripe fringed with black bristles between the eyelets and the base of the feelers; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes dark red: sucker black, clothed with pale tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint pitchy, linear, rather deep, truncated at the tip, about thrice the length of the second joint; bristle pitchy, black at the base, almost twice the length of the third joint, feathered for more than half its length: chest with

four broad tawny stripes, the middle pair double; scutcheon and sides of the chest armed with black spines; breast clothed with short tawny hairs: abdomen oval, tawny, tessellated with darker colour, and having a slender black stripe on the back, a little shorter and broader than the chest: legs black, covered with dark tawny bloom, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray, yellow at the base; shoulders yellow; wing-ribs ferruginous; veins black, ferruginous towards the base; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower long and inward, the other short and outward; scales whitish, with pale tawny borders. Length of the body 5 lines; of the wings 10 lines.

a. Port Essington. From Mr. Gould's collection.

*SARCOPHAGA varia*, Walk. *Linn. Trans.* xvii. 353, 60.

a. Port Famine. Presented by the Entomological Club.

*SARCOPHAGA gravis*, n. s., fem. *Nigra, capite aurco-fulvo, thoraci vittis quatuor lateribus scutelloque fulvis, pectore fulvo-cinereo, abdomine fulvo tessellato, apice subtus ferrugineo, antennis pedibusque nigris, illorum articulo 3<sup>o</sup> picco, alis cinereis.*

Body black, clothed with black hairs and bristles: head golden tawny, clothed beneath with pale tawny hairs; a black stripe fringed with bristles between the cyclets and the feelers; epistoma rather prominent; sides of the face fringed with bristles for half the length from the base: eyes dark red: sucker black, clothed with tawny hairs; palpi black, with ferruginous tips, beset with black bristles: feelers black, a little shorter than the face; third joint pitchy, less than twice the length of the second, linear, or very slightly decreasing in depth from the base to the tip, which is rounded; bristle pitchy, tapering, rather less than twice the length of the third joint, feathered till near the tip: chest adorned with four broad tawny stripes, the middle pair double; breast hoary, with a tawny tinge; scutcheon and sides of the chest tawny, armed with black spines: abdomen nearly elliptical, tawny with darker reflections, slightly tessellated, armed at the tip with black spines, broader but not longer than the chest; underside of the last segment ferruginous: legs black, clothed with black hairs and bristles; claws ferruginous at the base; foot-cushions tawny: wings gray; shoulders tawny; wing-ribs and veins pitchy; veins black towards the tips; tip cross-vein forming an acute angle with the fourth lon-

gitudinal vein, much curved inward near the base, almost straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein almost straight till near the tip, where it is slightly curved outward; scales slightly gray, with dark tawny borders. Length of the body 8 lines; of the wings 16 lines.

a. ———? Presented by Sir E. Belcher.

*SARCOPHAGA striata*, Meig. *Dipt.* v. 21, 7. Macq. *Hist. Nat. Dipt.* ii. 226, 12. Zett. *Dipt. Scand.* iv. 1286, 3. *Musca striata*. Fabr. *Ent. Syst.* iv. 315, 13. *Syst. Antl.* 288, 20. *M. pernix*? Harr. *Ex.* 84, pl. 25, f. 13. *M. carnaria*, var. Fall. *Musc.* 38, 1. *Myophora striata*, Desv. *Essai Myod.* 352, 49.

a. England.

*SARCOPHAGA chrysostoma*, Wied. *Auss. Zweif.* ii. 356, 2.

a. Brazil. Presented by Sir C. Stewart.

b. Brazil.

c. ———?

*SARCOPHAGA impatiens*, n. s., fem. *Nigra*, capite aureo micante, thoraci vittis quatuor scutello pectoreque fulvis, scutello macula nigra, abdomine maculis cinereo-fulvis quadrivittato, antennis pedibusque nigris, alis subcinereis.

Body black, clothed with black hairs and bristles: head with a very bright gold covering, clothed beneath with bright golden hairs; a black stripe between the eyelets and the feelers; sides of the face fringed with bristles at the base: eyes red: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint about thrice the length of the second, dark ferruginous at the base beneath, rather deep, flat above, very slightly convex beneath, rounded at the tip; bristle tapering, less than twice the length of the third joint, its first joint obsolete; second joint very short; third joint feathered nearly to the tip: chest adorned with four broad tawny stripes; middle pair double, narrower than the outer pair; scutcheon tawny, with a large obconical black spot on its disk; breast duller tawny; abdomen obconical, a little broader but not longer than the chest, tessellated with grayish tawny reflections, which are disposed in four rows of irregular spots; underside gray: legs black, clothed with black hairs and bristles; thighs tinged with grayish tawny; foot-cushions pitchy: wings slightly gray; shoulders tawny; wing-ribs pitchy; veins black; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, where it is very slightly inclined

outward, joining the border at some distance above the tip of the wing; lower cross-vein very slightly curved inward from the base till near the tip, where it is more distinctly curved outward; scales gray, with tawny borders. Length of the body 6 lines; of the wings 11 lines.

a. New Holland. From Mr. Lambert's collection.

*SARCOPHAGA misera*, n. s., fem. *Nigra, capite aureo, thoraci vittis quatuor scutelloque albido-fulvis, huic macula nigra, pectore cinereo, abdomine maculis cinereo-fulvis quadrivittato, pedibus nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with a gold covering, paler and clothed with pale tawny hairs beneath: a broad black stripe fringed with bristles between the eyelets and the feelers; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes dark red: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: chest adorned with four broad whitish tawny stripes, the inner pair double; scutcheon whitish tawny, with a large obconical black spot on the disk; breast hoary: abdomen obconical, a little broader but not longer than the chest, tessellated with grayish tawny reflections, which are disposed in four rows of irregular spots; underside gray: legs black, clothed with black hairs and bristles; thighs tinged with grayish tawny; foot-cushions pitchy: wings slightly gray; shoulders tawny; wing-ribs pitchy; veins black; tip cross-vein forming an acute angle with the fourth longitudinal vein, much curved inward at the base, straight from thence to the tip, where it is very slightly inclined outward, joining the border at some distance above the tip of the wing; lower cross-vein with three curves; first and third outward, very short, occupying the base and the tip of the vein; second inward, comprising the middle part, but hardly perceptible; scales gray, with tawny borders. Length of the body  $4\frac{1}{2}$ —5 lines; of the wings 8—9 lines.

a. New Holland. Presented by J. Hunter, Esq.

b. New Holland.

c. West Australia. From Mr. Clifton's collection.

*SARCOPHAGA tessellata*, Wied. *Auss. Zweif.* ii. 363, 19. *Musca tessellata*, *Fabr. Syst. Anth.* 285, 8.

a. Monte Video. Presented by C. Darwin, Esq.

*SARCOPHAGA Georgina*, Wied. *Auss. Zweif.* ii. 357, 4.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. Newfoundland. Presented by W. C. St. John, Esq.



## †† Cano-vittatæ.

**SARCOPHAGA carnaria**, *Meig. Dipt.* v. 18, 6. *Macq. Hist. Nat. Dipt.* ii. 226, 10. *Zett. Ins. Lapp.* 649, 1. *Dipt. Scand.* iv. 1284, 1. *Musca carnaria*, *Linn. Syst. Nat.* ii. 990. *Faun. Suec.* 1832. *Gmel. Ed. Syst. Nat.* i. 5, 2840, 68. *Fabr. Sp. Ins.* ii. 436, 4. *Ent. Syst.* iv. 313, 3. *Syst. Antl.* 284, 4. *Schrank. Ins. Austr.* 927. *Faun. Boic.* iii. 2489. *Stew. El.* ii. 258. *Turt.* iii. 598. *Shaw, Gen. Zool.* vi. 385, pl. 107, f. sup. *Latr. Gen. Crust.* iv. 345. *Fall. Musc.* 38, 1. *Musca*, &c. *Reaum. Ins.* iv. pl. 29, f. 2—8. *M. vivipara major*, *Deg. Ins.* vi. 31, 8, pl. 3, f. 5—18. *M. variegata*, *Scop. Ent. Carn.* 869. *Myophora carnaria*, *Desv. Essai Myod.* 347, 31.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**SARCOPHAGA Atropos**, *Meig. Dipt.* v. 23, 10. *Macq. Hist. Nat. Dipt.* ii. 227, 15. *Zett. Dipt. Scand.* iv. 1287, 4.

a. ———? From Mr. Children's collection.

**SARCOPHAGA arvorum**, *Meig. Dipt.* v. 24, 13. *Macq. Hist. Nat. Dipt.* ii. 227, 19. *Zett. Dipt. Scand.* iv. 1292, 11. *Myophora arvorum*? *Desv. Essai Myod.* 361, 84.

a. ———?

**SARCOPHAGA melanura**, *Meig. Dipt.* v. 23, 11. *Macq. Hist. Nat. Dipt.* ii. 227, 17. *Zett. Dipt. Scand.* iv. 1288, 6. *S. albiceps*, *Zett. Ins. Lapp.* 650, 3.

a. England.

b. France.

**SARCOPHAGA irrequieta**, n. s., fem. *Cinerea, capite pectoreque canis, thorace fusco trivittato, abdomine cano nigroque tessellato, palpis antennis pedibusque nigris, alis limpidis basi subfulvis.*

Body clothed with black hairs and bristles: head hoary; a black stripe between the eyelets and the feelers; epistoma not prominent; sides of the face bristly at the base: eyes red; fore part flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, as long as the face; third joint linear, covered with a gray bloom, truncated at the tip, about four times the length of the second; bristle feathered for full half its length, very much longer than the third joint: chest gray, with three brown stripes, the middle one with a very slender stripe on each side: breast hoary: tip of

the scutcheon and hind borders of the abdominal segments armed with black spines: abdomen elliptical, a little broader and shorter than the chest, gray, tessellated with hoary reflections; a black middle stripe and black bands on the hind borders of the segments: legs black, clothed with black hairs and bristles; a hoary tinge on the thighs; foot-cushions tawny: wings colourless, with a tawny tinge at the base; wing-ribs tawny; veins black, tawny towards the base; scales white, with pale yellow borders; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. New Holland. From Mr. Gould's collection.

*SARCOPHAGA vigil*, n. s., mas. *Nigra, capite albo micante, thoraci vittis quatuor canis, abdomine cano interruptè quadrivittato, antennis fulvis, articulo 3<sup>o</sup> pedibusque nigris, alis subcinereis basi fuscis.*

Body black, clothed with black hairs and bristles: head adorned with white reflections, thickly clothed beneath with black hairs; face tawny, with the exception of two black stripes which correspond with the feelers, its sides fringed with bristles at the base; epistoma tawny, slightly prominent: eyes red: sucker black, clothed at the tip with short tawny hairs; palpi long, slender, tawny, beset with black bristles: feelers tawny, very short, hardly more than half the length of the face; third joint black, tawny at the base, a little longer than the second joint, flat above, slightly convex beneath, rounded at the tip; bristle black, tapering, nearly thrice the length of the second joint; its first joint obsolete; second joint very short; third joint downy for full half the length from the base: chest adorned with four hoary stripes, the middle pair double; scutcheon armed with a few long black spines: abdomen obconical, not longer than the chest, adorned with two rows of triangular hoary spots, and on each side with a slightly interrupted hoary stripe: legs black, clothed with black hairs and bristles; foot-cushions tawny; middle shanks thickly fringed with hairs on the inner side: wings slightly gray, tinged with brown at the base; wing-ribs pitchy; veins black; tip cross-vein forming a right angle with the fourth longitudinal vein, much curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein very slightly curved inward near the base, hardly curved outward at the tip; scales white, with pale yellow borders. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*SARCOPHAGA edax*, n. s., fem. *Nigra, capite antico ferrugineo, thoraci vittis quatuor canis, scutello ferrugineo, abdomine maculis cinereo-fulvis quadrivittato, antennis rufis, pedibus nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head in front ferruginous and partly adorned with white lustre, clothed beneath with pale tawny hairs; epistoma tawny, slightly prominent; sides of the face fringed with bristles at the base: eyes pitchy: sucker black, ferruginous and clothed with tawny hairs towards the tip: feelers red, shorter than the face; third joint nearly twice the length of the second, very slightly decreasing in depth from the base to the tip, which is rounded; bristle black, feathered nearly to the tip, full twice the length of the third joint: chest adorned with four hoary stripes, the inner pair double; breast gray; scutcheon ferruginous: abdomen oval, a little longer and broader than the chest, adorned with grayish tawny reflections, which have a tessellated appearance: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings almost colourless, slightly tawny at the base; shoulders and wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming hardly more than a right angle with the fourth longitudinal vein, curved inward at the base, straight from thence till near the tip, where it is slightly curved outward, joining the third longitudinal vein at a short distance from the tip of the latter; lower cross-vein much curved inward at the base, almost straight from thence to the tip; scales white, with yellow borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. France?

*SARCOPHAGA pumila*, Meig. *Dipt.* v. 24, 12. *Zett. Dipt. Scand.* iv. 1291, 9.

a. France?

Group. IV. *Phorella*, Desv. *Essai Myod.* 362.

*SARCOPHAGA INOA*, n. s., fem. *Cinereo-nigra, thorace fusco-nigro, vittis quatuor fulvo-cinereis, abdomine maculis canis quadrivittato, antennis ferrugineis, articulo 3<sup>o</sup> piceo, pedibus nigris, alis sublimpidis basi subfulvis.*

Body black, with a slight gray tinge, clothed with black hairs and bristles: head hoary, clothed beneath with gray hairs; sides of the face, epistoma and peristoma ferruginous; a ferruginous band on each side between the epistoma and the eye; sides of the face fringed with bristles at the base; epistoma prominent: eyes pitchy:

sucker black, clothed at the tip with tawny hairs; palpi pitchy, beset with black bristles: feelers pitchy, shorter than the face; first and second joints ferruginous; third joint flat above, slightly convex beneath, rounded at the tip, about twice the length of the second joint; bristle black, downy for full half its length from the base, bare from thence to the tip, much more than twice the length of the third joint: chest brownish black, adorned with four gray stripes, which have a slight tawny tinge; inner pair double on the fore part; sides and hind border of the scutcheon gray; breast hoary: abdomen nearly elliptical, a little broader but hardly longer than the chest; each segment adorned with four large hoary spots; tip black: legs black, clothed with black hairs and bristles; thighs and shanks slightly tinged with gray; foot-cushions pitchy: wings nearly colourless, slightly tawny at the base; wing-ribs tawny; veins black, pitchy at the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, hardly curved inward near the base, almost straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, less distinct than the other, which is outward; scales pale yellow. Length of the body 5 lines; of the wings 10 lines.

α. Galapagos. Presented by C. Darwin, Esq.

SARCOPHAGA ANACES, n. s. *Nigro-cinerea, abdomine maculis canis quadrivittato, antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head hoary, excepting a black stripe fringed with bristles between the eyelets and the feelers; epistoma not prominent; sides of the face fringed with bristles at the base: eyes dark red: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, much shorter than the face; third joint about twice the length of the second, flat above, slightly convex beneath, obliquely truncated at the tip; bristle feathered for more than half the length from the base, more than twice the length of the third joint: chest tinged with gray: abdomen elliptical, not longer nor broader than the chest, adorned with hoary reflections, which are disposed in four rows of large irregular spots: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs tawny; veins black; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein straight for a short distance from the base, then slightly curved inward, and lastly very

slightly inclined outward; scales white. Length of the body 3 lines; of the wings 6 lines.

a. North America? Presented by the Entomological Club.

Group V. *Cynomyia*, *Desv. Essai Myod.* 363.

*SARCOPHAGA mortuorum*, *Meig. Dipt.* v. 16, 1. *Zett. Ins. Lapp.* 650, 6. *Dipt. Scand.* iv. 1303, 25. *Musca mortuorum*, *Linn. Syst. Nat.* ii. 989. *Faun. Suec.* 1830. *Gmel. Ed. Syst. Nat.* i. 5, 2839, 67. *Schæff. Icon. pl.* 54, f. 9. *Turt.* iii. 600. *Don. Brit. Ins.* xv. 5, pl. 507. *Latr. Gen. Crust.* iv. 345. *Cons. Gén.* 444. *Fall. Musc.* 45, 18. *M. vomitoria*, *Fabr. Sp. Ins.* ii. 439, 17. *Ent. Syst.* iv. 318, 25. *Syst. Antl.* 290, 14. *Stew. El.* ii. 258. *Turt.* iii. 600. *M. chrysocephala*, *Deg. Ins.* vi. 30, 5, pl. 60, f. 5. *Volucella vomitoria*, *Schrank, Faun. Boic.* iii. 2488. *Cynomyia mortuorum*, *Desv. Essai Myod.* 364, 1. *Macq. Hist. Nat. Dipt.* ii. 233, 1, pl. 16, f. 4. *C. chrysocephala*, *Desv. Essai Myod.* 364, 2.

a. England.

*SARCOPHAGA chlorogaster*, *Wied. Auss. Zweif.* ii. 359, 9. *Walk. Linn. Trans.* xvii. 353, 58.

a. Monte Video. Presented by C. Darwin, Esq.

*SARCOPHAGA Ortogesa*, n. s., mas. *Cyanea, viridi purpureoque vario, thoraci vittis quatuor canis, abdomine viridi basi purpureo, antennis pedibusque nigris, femoribus cyaneis, alis subcine-reis.*

Body bright blue, tinged here and there with green and purple, clothed with black hairs and bristles: head adorned with a white covering; sides of the face fringed with bristles at the base; epistoma not prominent: eyes dark red: sucker black; palpi black, beset with black bristles; first and second joints of the feelers black: chest adorned with four hoary stripes: abdomen oval, a little broader and longer than the chest; first and second segments purple; hind border of the second segment bluish-green; third and following segments green: legs black, clothed with black hairs and bristles; thighs blue; foot-cushions dark tawny: wings slightly gray; wing-ribs and veins black; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, much curved inward near the base, slightly waving from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very short and slight curves near the base, the first outward,

the second inward and succeeded by a straight line till near the tip, where there is a long and more distinct outward curve; scales gray, with pale borders. Length of the body 7 lines; of the wings 14 lines.

a. Chili. From Mr. Cuming's collection.

*SARCOPHAGA Proerna*, n. s., fem. *Nigra, capite antico ferrugineo, abdomine purpureo, palpis antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head ferruginous in front; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes pitchy; fore part slightly convex, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, rounded at the tip, full four times the length of the second; bristle about twice the length of the third joint, deeply feathered along half the length, its first joint distinct, but much shorter than the second: abdomen purple, obconical, hardly longer or broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs and veins black; tip cross-vein forming an acute angle with the fourth longitudinal vein, much curved inward near the base, very slightly curved outward from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very distinct curves, the lower inward, the other outward; scales gray, with tawny borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Monte Video. Presented by C. Darwin, Esq.

### DEXIA, Meigen.

#### Group I. Estheria, Desv. Ess. Myod. 305.

*DEXIA abdominalis.* *Estheria abdominalis*, Desv. Ess. Myod. 306, 2.

a. Nova Scotia. From Lieut. Redman's collection.

*DEXIA tibialis.* *Estheria tibialis*, Desv. Ess. Myod. 306, 1.

a. Nova Scotia. From Lieut. Redman's collection.

**DEXIA** Dirphia, n. s., fem. *Gana, capite nigro-fusco vittato, thorace vittis duabus latis tribusque angustis ornato, scutello subpiceo, abdomine cinereo canoque tessellato, palpis fulvis, antennis piceis basi ferrugineis, pedibus nigris, alis subcinereis, basi et ad venas transversas fuscis.*

Body clothed with black hairs and bristles: head white, gray on the crown; a broad and very dark brown stripe fringed with bristles between the eyelets and the feelers; epistoma tawny, prominent; face pale ferruginous, its sides fringed with bristles at the base: eyes red; fore part flat, its facets very little larger than those elsewhere: sucker black, ferruginous and clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: feelers pitchy, ferruginous at the base, nearly as long as the face; third joint linear, rounded at the tip, about thrice the length of the second; bristle black, feathered with short hairs till near the tip, very much longer than the third joint: chest and breast hoary; two broad black stripes on the chest, and between them on the fore part three narrow black stripes; scutcheon somewhat pitchy, its tip armed with black spines; abdomen obconical, gray, broader and a little shorter than the chest, tessellated with hoary reflections, armed on each side and on the hind borders of the segments towards the tip with black spines: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray, tinged with brown at the base and on the middle cross-vein, and more slightly on the other cross-veins; wing-ribs and veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, which sends forth a stump beyond it, almost imperceptibly curved inward from the base to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; scales white, with pale yellow borders. Length of the body 6 lines; of the wings 12 lines.

*a.* ———? From Mr. Children's collection.

**DEXIA** cristata, *Meig. Dipt.* v. 41, 11, *pl.* 43, *f.* 21. *Zett. Dipt. Scand.* 127, *f.* 16. *Dinera cristata, Macq. Hist. Nat. Dipt.* ii. 210, 1, *pl.* 15, *f.* 16. *Meig. Dipt.* vii. 269, 1, *pl.* 73, *f.* 13, 15. *Estheria imperatorix, Desv. Ess. Myod.* 306, 3.

*a.* England.

*b.* Lapland. Presented by the Entomological Club.

**DEXIA** Prexaspes, n. s., mas. *Ferruginea, capitis vitta thoracisque disco piceis, abdomine nigro vittato, cano tessellato, palpis flavis, antennis fulvis apice ferrugineis, pedibus ferrugineis, tarsis nigris, alis subcineretis, basi costa venarumque marginibus subfulvis.*

Body clothed with black hairs and bristles: head ferruginous, dark tawny above; a pitchy stripe fringed with bristles widening from the eyelets to the feelers; epistoma and face tawny; epistoma hardly prominent; sides of the face fringed with bristles nearly along the whole length: eyes red; fore part slightly convex, its facets larger than those elsewhere: sucker black, pale ferruginous, and clothed with tawny hairs towards the tip; palpi yellow, beset with black bristles: feelers tawny, very short, not half the length of the face; third joint ferruginous, linear, rounded at the tip, hardly longer than the second; bristle black, stout at the base, feathered with rather long hairs, more than thrice the length of the third joint: chest and breast ferruginous, adorned with hoary reflections; disk of the chest somewhat pitchy: abdomen ferruginous, obconical, tessellated with hoary reflections, a little longer, but not broader than the chest, adorned along the whole length with a black stripe, which is broader above than beneath: legs ferruginous, clothed with black hairs and bristles; feet black; foot-cushions tawny: wings pale gray, with a slight tawny tinge at the base, on the fore borders, and along the borders of the veins; wing-ribs ferruginous; veins black, ferruginous at the base; tip cross-vein perpendicular to the fourth longitudinal vein, with which it forms a curve at their union, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the upper outward; scales gray, with a tawny tinge. Length of the body 5 lines; of the wings 10 lines.

a. Georgia. From Mr. Abbot's collection.

**DEXIA** Halone, n. s., mas. et fein. *Ferruginea, thorace quadrivittato, cano micante, mari. abdominis dorso piceo vittato lateribus cano micantibus, palpis fulvis, antennis luteis, pedibus ferrugineis, alis sublimpidis basi subfulvis.*

Body pale ferruginous, clothed with black hairs and bristles: head mostly adorned with a white covering; a dark ferruginous furrowed stripe, fringed with bristles, widening from the eyelets to the feelers; sides of the face prominent and fringed with bristles for half the length from the base; epistoma not prominent: eyes red: sucker ferruginous, clothed at the tip with tawny hairs; palpi



tawny, beset with black bristles: feelers luteous, very short, about one-third of the length of the face; third joint conical, not longer than the second; bristle more than thrice the length of the third joint, pitchy at the base, feathered with short hairs to the tip: chest adorned with hoary reflections, which are interrupted by four slender ferruginous stripes: abdomen oval, a little broader and longer than the chest, adorned on each side with hoary reflections; a pitchy stripe along the back of the male: legs ferruginous, clothed with black hairs and bristles; shanks darker than the thighs, paler than the feet; tips of the claws black; foot-cushions yellow: wings tawny; veins pitchy towards the tips; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, having a short outward curve near the base, and a long inward curve from thence to the tip; lower cross-vein with two slight curves, the lower inward, more distinct than the other, which is outward; scales whitish. Length of the body 6 lines; of the wings 13 lines.

a. Georgia. From Mr. Abbot's collection.

Group II. *Megaprosopus*, *Macq. Dipt. Exot.* ii. 3, 83, *pl.* 10, *f.* 1.

Group III. *Microphthalma*, *Macq. Dipt. Exot.* ii. 3, 84, *pl.* 10, *f.* 2.

Group IV. *Dinera*, *Desv. Ess. Myod.* 308.

Group V. *Aria*, *Desv. Ess. Myod.* 309.

Group VI. *Feria*, *Desv. Ess. Myod.* 309.

Group VII. *Catilia*, *Desv. Ess. Myod.* 310.

Group VIII. *Dexia*, *Desv. Ess. Myod.* 311.

*DEXIA pandens*, n. s., fem. *Cyanea, capite nigro, thorace vittis quatuor canis, scutello abdominis vittis duabus ventreeque purpureis, antennis pedibusque nigris, alis subfuscis, basi et ad costam fulvis limbo variis.*

Body blue, clothed with black hairs and bristles: head black, mostly adorned with a white covering, clothed beneath with a few tawny hairs, having a pale golden band along the hind border of each eye; facials, or parts of the head adjoining the sides of the face, dark ferruginous; epistoma prominent; sides of the face fringed with bristles at the base: eyes dark red: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, a little shorter than the face, slightly ferruginous at

the base; third joint full thrice the length of the second, linear for two-thirds of its length, thence slightly increasing in depth to the tip, which is rounded, bristle more than twice the length of the third joint, its first and second joints short; third downy till near the tip: chest adorned with four hoary stripes; inner pair double; scutcheon purple: breast black, tinged with gray: abdomen a little longer than broad, much broader but hardly longer than the chest, adorned with two slender, indistinct, purple stripes, which are parallel and very near to each other; under side purple, with hoary reflections: legs black, clothed with black hairs and bristles; foot-cushions and claws tawny; tips of the claws black: wings slightly brown, tawny with colourless intervals at the base, and on nearly half the length of the fore borders; wing-ribs and veins bright tawny; veins pitchy towards the tips; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, hardly curved inward at the base, almost straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the one near the base and almost imperceptible, the other near the tip and rather more distinct; scales pale tawny. Length of the body 8 lines; of the wings 20 lines.

a. ———?

DEXIA potens, Wied. Auss. Zweif. ii. 368, 1. Dinera potens, Macq. Hist. Nat. Dipt. ii. 210, 2.

a. Brazil. From Mrs. Noel's collection.

DEXIA Gortys, n. s., fem. *Picea, capite antico ferrugineo, thoracis lateribus pectore scutellique apice fulvis, abdomine fulvo, palpis antennis pedibusque ferrugineis, alis flavo-fuscis.*

Body pitchy, clothed with black hairs and bristles: head ferruginous in front; epistoma not prominent; sides of the face fringed with bristles at the base: eyes pale red; facets on the fore part larger than those elsewhere: sucker and palpi ferruginous, beset with black bristles: feelers pale ferruginous, shorter than the face; third joint linear, somewhat truncated at the tip, about thrice the length of the second joint; bristle much more than twice the length of the third joint, deeply feathered till near the tip, where it is black: chest on each side, breast and tip of the scutcheon tawny: abdomen nearly oval, dull tawny, paler beneath, darker towards the tip, a little broader but not longer than the chest: legs ferruginous, clothed with black hairs and bristles; feet furnished beneath with golden down; foot-cushions tawny; claws black, ferruginous at the base: wings yellowish brown, darkest along the fore borders; wing-

ribs ferruginous; veins black, ferruginous at the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, a little curved inward, joining the border at a short distance above the tip of the wing; lower cross-vein nearly straight, but having two almost imperceptible curves; the lower inward, the other outward, and succeeded by a very obtuse outward angle; scales tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 14 lines.

a. Brazil. Presented by Dr. Sinclair.

DEXIA Thomæ, Wied. Auss. Zweif. ii. 379, 18.

a. Jamaica. From Mr. Gosse's collection.

DEXIA gracilis? Wied. Auss. Zweif. ii. 373, 8.

a. ——— ?

DEXIA Harpasa, n. s., mas. *Nigra, capite cano, thorace cinereo subvittato, scutelli apice ferrugineo, abdomine cano tessellato, palpis flavis, antennis ferrugineis basi fulvis, pedibus nigris, tibiis ferrugineis, alis flavo-fuscis margine postico sublimpidis.*

Allied to *Stomoxys*. Body black, clothed with black hairs and bristles: head adorned with a hoary covering, clothed beneath with yellowish white hairs; facials red; a dark ferruginous stripe fringed with bristles between the eyelets and the feelers; sides of the face prominent and fringed with bristles at the base; peristoma and epistoma yellow, the latter slightly prominent: eyes red: sucker black, ferruginous and clothed with tawny hairs at the tip; palpi yellow, club-shaped, beset with black bristles: feelers tawny, not more than half the length of the face; third joint ferruginous, a little longer than the second, slightly decreasing in depth from the base to the tip, which is rounded; bristle black, deeply feathered from the base to the tip, much more than twice the length of the third joint: chest and breast adorned with a gray covering, the former indistinctly striped; scutcheon ferruginous towards the tip: abdomen elliptical, adorned with hoary reflections, as long and as broad as the chest: legs black, clothed with black hairs and bristles; shanks dark ferruginous; foot-cushions dark tawny: wings tinged with yellowish brown, nearly colourless along the hind borders; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very little curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the upper outward, rather more distinct than the other, which is inward; scales

grayish, with pale tawny borders. Length of the body 4 lines; of the wings 8 lines.

a. North America. From Mr. Children's collection.

*DEXIA* *Pristis*, n. s., mas. *Nigra, capite albo micante, thorace cinereo vittis quatuor nigris, pectore cano, abdomine maculis canis bivittato, antennis pedibusque nigris, illis basi palpis tibiisque ferrugineis, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head covered with white lustre, clothed beneath with white hairs; a dark ferruginous stripe fringed with bristles, widening from the eyelets to the feelers; epistoma not prominent; sides of the face fringed with bristles at the base: eyes dark red, hairy: sucker yellow, clothed with yellow hairs; palpi tawny, beset with black bristles: feelers ferruginous, nearly as long as the face; third joint black, ferruginous at the base, full thrice the length of the second joint, slightly increasing in depth from the base to the tip, which is rounded; bristle tapering, very slender, more than twice the length of the third joint, downy for half the length from the base: chest tinged with gray, adorned with four slender black stripes; breast hoary, partly clothed with pale yellow hairs: abdomen long-obconical, much longer and a little narrower than the chest, adorned with hoary reflections, which form a large spot on each side of every segment; underside bluish gray: legs black, clothed with black hairs and bristles; thighs tinged with bluish gray; shanks dark ferruginous; foot-cushions yellow; claws hairy: wings nearly colourless; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a right angle with the fourth longitudinal vein, slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward, shorter and more distinct than the other, which is outward; scales whitish, with pale yellow borders. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Massachusetts. From Prof. Sheppard's collection.

*DEXIA* *Ogoa*, n. s., fem. *Fulva, pectore albo, abdomine basi flavo apice piceo vittato, pedibus fulvis, alis sublimpidis vix fulvescentibus.*

Body pale tawny, clothed with black hairs and long black bristles: head wanting: scutcheon armed with two long black spines: breast white: abdomen elliptical, much longer than the chest, pale yellow towards the base; a short pitchy stripe at the tip, which, like the sides, is armed with a few long black spines: legs

yellow, clothed with black hairs and bristles; feet tawny, very thickly beset with short hairs; foot-cushions pale tawny; claws black: wings nearly colourless, but having a very slight tawny tinge; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming with the fourth longitudinal vein an obtuse angle, which is very near the border of the wing, straight, with the exception of a very slight inward curve near the tip, joining the border at the tip of the wing; lower cross-vein nearly straight, the two usual curves being almost imperceptible; scales white, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines of the wings 6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*DEXIA* Cremides, n. s., fem. *Nigra, capite albo, thorace cinereo, subvittato, scutelli apice ferrugineo, pectore cano, abdomine maculis cinereo-fulvis vittato, antennis ferrugineis, palpis pedibusque fulvis, tarsis nigris, alis subcinereis, basi costa venarumque marginibus subfulvis.*

Body black, clothed with black hairs and bristles: head adorned with a white covering; a pitchy stripe fringed with bristles between the eyelets and the feelers; peristoma and epistoma tawny, the latter prominent; sides of the face fringed with bristles at the base: eyes red, not hairy: sucker black, pitchy and clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: feelers ferruginous, rather more than half the length of the face; third joint nearly linear, pitchy, ferruginous at the base, conical at the tip, more than twice the length of the second joint; bristle black, pale tawny at the base, deeply fringed from thence to the tip, more than twice the length of the third joint: chest covered with gray bloom, which is indistinctly striped with black; breast hoary; tip of the scutcheon ferruginous: abdomen obconical, a little broader but not longer than the chest, adorned with grayish tawny reflections, which are arranged in four rows of large irregular spots; underside hoary: legs tawny, clothed with black hairs and bristles; shanks darker than the thighs; feet black; claws and foot-cushions tawny: wings slightly gray, with an indistinct tawny tinge at the base, on the fore borders, and along the borders of the veins; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a right angle with the fourth longitudinal vein, slightly and irregularly curved inward along the whole length, joining the border at a short distance above the tip of the wing; lower cross-vein with two curves, the lower inward, shorter and deeper than the other, which is outward; scales whitish, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. North America. Presented by the Entomological Club.

**DEXIA Hyria**, n. s., fem. *Cana, capite ferrugineo, thorace fusco quadrivittato, abdomine ferrugineo fulvo micante, antennis pedibusque nigris, alis subcinereis.*

Body clothed with black hairs and bristles: head ferruginous, clothed behind and beneath with pale tawny hairs: a pitchy stripe widening from the eyelets to the feelers, and occupying the whole breadth between the eyes; epistoma prominent; sides of the face beset with bristles at the base; middle part occupied by a high ridge like that of *Rutilia*: eyes dark red; fore part nearly flat, its facets a little larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs at the tip: feelers black, very much shorter than the face; third joint linear, rounded at the tip, more than twice the length of the second joint; bristle slightly hairy, longer than the third joint: chest and breast hoary: chest adorned with four broad brown stripes: tip of the scutcheon and hind borders of the abdominal segments armed with a few black spines: abdomen ferruginous, longer and a little narrower than the chest, adorned above with pale tawny reflections: legs black, clothed with black hairs and bristles: wings slightly gray; wing-ribs pitchy; veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, which sends forth a long stump beyond it, very slightly curved inward along the whole length, joining the border a short distance above the tip of the wing; lower cross-vein with two distinct curves, the lower inward, not so deep as the other, which is outward; scales white, with pale tawny borders. Length of the body 5 lines; of the wings 9 lines.

a. Adelaide. Presented by the Entomological Club.

**DEXIA anthracina**, Meig. *Dipt.* v. 36, 3.

a. England.

b. ———? From Mr. Children's collection.

**DEXIA canina**, Meig. *Dipt.* v. 47, 24, vii. 270, 12. *Desc. Essai Myod.* 313, 6. *Macq. Hist. Nat. Dipt.* ii. 212, 2, pl. 15, f. 17. *Zett. Dipt. Scand.* iii. 1263, 1. *Musca canina*, *Fabr. Sp. Ins.* ii. 440, 24. *Ent. Syst.* iv. 321, 38. *Syst. Antl.* 296, 60. *Gmel. Ed. Syst. Nat.* i. 5, 2842, 185. *Stew. Fl.* ii. 258. *Turt.* iii. 601. *Fall. Musc.* 41, 9. *Zett. Ins. Lapp.* 653, 2. *M. volets*, *Harr. Ex.* 84, pl. 25, f. 12.

a. England.

b. France?

c. ———?

*DEXIA vacua*, Meig. *Dipt.* v. 46, 23, vii. 270, 13. Macq. *Hist. Nat. Dipt.* ii. 212, 3. Zett. *Dipt. Scand.* iii. 1265, 3. Fall. *Act. Holm.* 1816, 240, 10. *Musc.* 42, 10.

a. France.

b. ———? From Mr. Children's collection.

c. ———?

*DEXIA griseus*, Meig. xx. *Dipt.* v. 45, 21, vii. 270, 10. Zett. *Dipt. Scand.* iii. 1278, 15. *Musca griseus*, Fall. *Musc.* 44, 16. *Dinera griseus*, Macq. *Hist. Nat. Dipt.* ii. 211, 4.

a. ———? From Mr. Children's collection.

*DEXIA rustica*, Meig. *Dipt.* v. 46, 22, vii. 270, 8. Desv. *Essai Myod.* 311, 1. Macq. *Hist. Nat. Dipt.* ii. 211, 1. Zett. *Dipt. Scand.* iii. 1264, 2. *Musca rustica*, Fabr. *Sp. Ins.* ii. 440, 26. *Ent. Syst.* iv. 322, 41. *Syst. Antl.* 296, 64. Gmel. *Ed. Syst. Nat.* v. 2842, 187.

a. England.

*DEXIA* Posio, n. s., fem. *Fulva, capite nigro anticè ferrugineo, thorace nigro quadrivittato, abdomine fulvo-cinereo cano tessellato, pedibus nigris, alis subcinereis basi costa venarumque marginibus subfuscis.*

Body clothed with black hairs and bristles: head black, with a brown tinge above, ferruginous, and covered with white bloom in front; a pitchy furrowed stripe between the eyelets and the feelers; epistoma not prominent; sides of the face without bristles: eyes pitchy; fore part flat, its facets larger than those elsewhere: feelers tawny at the base: chest and breast tawny; chest adorned with four black stripes: abdomen obconical, gray, with a tawny tinge, much longer, but not broader than the chest, tessellated with hoary reflections: legs black, clothed with black hairs and bristles: wings slightly gray, tinged with brown at the base, on the fore borders, and along the veins; wing-ribs dark ferruginous; veins black, ferruginous towards the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, where it is slightly curved outward, joining the third vein at some distance from the tip of the latter; lower cross-vein curved inward from the base to the middle, where it forms an angle with a very short stump, almost straight from thence to the tip; scales white, with pale tawny borders. Length of the body 5 lines; of the wings 9 lines.

a. Cape.

*DEXIA volvulus*, *Meig. Dipt.* v. 35, 2, *pl.* 43, *f.* 19. *Zett. Dipt. Scand.* iii. 1271, 8. *Musca volvulus*, *Fabr. Ent. Syst.* iv. 328, 67. *Zett. Ins. Lapp.* 653, 3. *Ocyptera volvulus*, *Fabr. Syst. Antl.* 314, 7. *Musca cylindrica*, *Fall. Act. Holm.* 1816, 242, 160. *Musc.* 43, 13. *Phyllomya volvulus*, *Desv. Essai Myod.* 213, 1. *Sericocera volvulus*, *Macq. Hist. Nat. Dipt.* ii. 166, 3. *Melania volvulus*, *Meig. Dipt.* vii. 275, 1, *pl.* 73, *f.* 23.

a. ——— ?

*DEXIA nigripes*, *Meig. Dipt.* v. 38, 8. *Musca nigripes*, *Fabr. Ent. Syst.* iv. 319, 30. *Syst. Antl.* 293, 47. *Panz. Faun. Germ.* 104, 18. *M. leucozona*, *Panz. Faun. Germ.* 104, 19. *M. lateralis*, *Fall. Musc.* 42, 11. *M. nigrina*, *Fall. Musc.* 42, 12. *D. leucozona*, *Meig. Dipt.* v. 37, 7. *Zett. Dipt. Scand.* iii. 1266, 4. *Thelaira abdominalis*, *Desv. Essai Myod.* 215, 1. *Sericocera leucozona*, *Macq. Hist. Nat. Dipt.* ii. 167, 5. *S. nigripes*, *Macq. Hist. Nat. Dipt.* ii. 167, 6.

a. England. From Mr. Children's collection.

b. ——— ?

*DEXIA compressa*, *Meig. Dipt.* v. 41, 13. *Zett. Dipt. Scand.* iii. 1277, 14. *Musca compressa*, *Fabr. Mant. Ins.* ii. 346, 44. *Ent. Syst.* iv. 327, 64. *Gmel. Ed. Syst. Nat.* v. 2847, 210. *M. rutilus*, *Harr. Ex.* 86, *pl.* 24, *f.* 20. *M. lateralis*, *Panz. Faun. Germ.* 8, 2. *M. rufiventris*, *Fall. Act. Holm.* 18, 16. *Musc.* 41, 8. *Zett. Ins. Lapp.* 652. *Ocyptera lurida*, *Fabr. Syst. Antl.* 314, 5. *O. compressa*, *Oliv. Encycl. Meth. Fabr. Syst. Antl.* 314, 5. *Volucella lurida*, *Schrank, Faun. Boic.* iii. 2483. *Mintho compressa*, *Meig. Dipt.* vii. 253, 1. *Desv. Essai Myod.* 216, 1. *Sericocera compressa*, *Macq. Hist. Nat. Dipt.* ii. 169, 10. *Wiedemannia compressa*, *Loew, Ent. Zeit. Stettin*, 1847, viii. 251.

a. England.

b. ——— ?

*DEXIA Thala*, n. s., fem. *Nigra, thorace cano trivittato, lateribus anticis fulvis, abdomine ferrugineo albo micante nigro vittato, antennis nigris, basi femoribusque fulvis, tibiis picetis, tarsis nigris, alis sublimpidis, basi venarumque marginibus subfulvis.*

Allied to *Tachina*. Body black, clothed with black hairs and bristles: head adorned with white lustre; a pitchy stripe fringed with bristles between the eyelets and the feelers; face and adjoining part of the head ferruginous; sides of the face fringed with bristles at the base; epistoma not prominent: eyes pitchy; fore



part composed of larger facets than those elsewhere : sucker pitchy, tawny, and clothed with tawny hairs at the tip ; palpi yellow, beset with black bristles : feelers bright tawny, a little shorter than the face ; third joint black, tawny at the base, slender, linear, truncated at the tip, hardly four times the length of the second joint ; bristle black, downy along the whole length, tawny at the base, very much longer than the third joint : chest adorned with three broad, hoary stripes, tawny on each side in front ; breast hoary : abdomen pale ferruginous, adorned with white lustre on the fore border of the third segment, spindle-shaped, compressed, less than twice the length of the chest ; a black interrupted stripe along the back : legs tawny, clothed with black hairs and bristles ; shanks pitchy ; feet black ; foot-cushions tawny : wings nearly colourless, slightly tawny at the base and along the fore borders of the veins ; tip cross-vein forming a right angle with the fourth longitudinal vein (which projects somewhat beyond it), slightly curved inward near the base, straight from thence to the tip, which joins the tip of the third longitudinal vein ; lower cross-vein with two curves, the lower inward and distinct, the other outward and hardly perceptible ; scales whitish, with tawny borders. Length of the body 4 lines ; of the wings 8 lines.

*a. Tangicr.* From Mr. Fraser's collection.

**DEXIA** Abzoe, n. s., fem. *Nigra, thoracis lateribus anticis ferrugineis, abdomine fulvo cano micante piceo fasciato nigro vittato, antennis ferrugineis, pedibus nigris, tibiis nigro-ferrugineis, alis fulvis.*

Allied to *Tachina*. Body black, clothed with black hairs and bristles : head ferruginous, partly adorned with a yellow covering ; a pitchy stripe fringed with bristles widening from the eyelets to the feelers ; epistoma not prominent ; sides of the face fringed with bristles at the base : eyes pitchy ; facets on the fore part larger than those elsewhere : sucker tawny, clothed with yellow hairs ; palpi ferruginous, beset with black bristles : feelers ferruginous, nearly as long as the face ; third joint linear, slender, rounded at the tip, more than four times the length of the second joint ; bristle much longer than the third joint, deeply feathered from the base to the tip : chest ferruginous on each side in front : abdomen tawny, tapering from the base to the tip, adorned with white reflections on each side, rather more than twice the length of the chest ; a black stripe on the back occupies the whole breadth near the tip, which is ferruginous ; hind borders of the segments irregularly pitchy : legs black, clothed with black hairs and bristles ; shanks dark ferruginous ; foot-cushions tawny : wings tawny, rather narrow, wing-ribs and veins ferruginous ; tip cross-vein forming a very obtuse angle

with the fourth longitudinal vein, very slightly curved inward from the base to the tip, joining the border a little above the tip of the wing; lower cross-vein with two slight curves, the lower inward, more distinct than the other, which is outward; scales tawny. Length of the body 5 lines; of the wings 9 lines.

a. Georgia. From Mr. Abbot's collection.

**DEXIA** Aurinia, n. s., fem. *Nigra, fulvo tecta, thorace vittis quatuor nigris, pectore cinereo, abdominis segmentorum marginibus anticis fulvis, palpis fulvis, antennis luteis, pedibus fulvis, tarsis nigris, alis cinereis costa venarumque marginibus fuscis.*

Body black, clothed with black hairs and bristles: head tawny, black on the crown, pitchy, and clothed with a few pale yellow hairs beneath; a pitchy furrowed stripe between the eyelets and the feelers: epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes red, not hairy: sucker tawny, clothed with yellow hairs; palpi tawny, beset with black bristles: feelers luteous, not more than half the length of the face; third joint rather deep, rounded at the tip, about twice the length of the second joint; bristle black, deeply feathered to the tip, about twice the length of the third joint: chest tinged with tawny colour, adorned with four slender black stripes; breast gray: abdomen oval, shining, much longer, but not broader than the chest; a broad tawny band on the fore border of each segment: legs tawny, clothed with black hairs and bristles, feet black; foot-cushions pale tawny: wings gray, brown on the fore borders and along the borders of the veins; wing-ribs tawny; veins pitchy, tawny towards the base; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein (which sends forth a short stump beyond it), curved inward, joining the border a little above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, a little more distinct than the other, which is almost imperceptible; scales yellowish white, with pale tawny borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. ———? From Mr. Children's collection.

**DEXIA** Cerata, n. s., fem. *Nigro-cinerea, capite cano, thorace subvittato, abdomine fulvo micante, palpis fulvis, antennis nigris basi ferrugineis, pedibus fulvis, tarsis nigris, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head adorned with a hoary covering; a pitchy furrowed stripe between the eyelets and the feelers; epistoma and peristoma tawny, the former prominent; sides of the face fringed with bristles at the base;

facials red: eyes bright red, not hairy: sucker black, ferruginous and clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: feelers pale ferruginous, much shorter than the face; third joint about twice the length of the second, black, ferruginous at the base, very slightly decreasing in depth from the base to the tip, which is rounded: chest and breast slightly tinged with gray; chest indistinctly striped: abdomen adorned with tawny reflections, oval, a little broader, but not longer than the chest; under side hoary: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions and claws tawny; tips of the claws black: wings nearly colourless; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, slightly and irregularly curved inward along the whole length, joining the border at a short distance above the tip of the wing; lower cross-vein curved inward near the base, straight from thence to the tip, where it is just inclined outward; scales white. Length of the body 4 lines; of the wings 9 lines,

a. North America. Presented by the Entomological Club.

*DEXIA* Isapis, n. s., mas. *Nigro-cinerea, thoracis lateribus anticis fulvis, abdomine fulvo apice nigro, antennis piceis basi fulvis, pedibus fulvis, tarsis nigris, alis snbcinereis.*

Allied to *Tachina*. Body black, clothed with black hairs and bristles; head adorned with white lustre: a pitchy stripe fringed with bristles between the eyelets and the feelers; epistoma not prominent; sides of the face fringed with bristles at the base: eyes pitchy; fore part flat, composed of larger facets than those elsewhere: sucker pitchy, tawny and clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: feelers bright tawny, as long as the face; third joint pitchy, tawny at the base, slender, linear, truncated at the tip, full six times the length of the second joint; bristle black, downy along the whole length, tawny at the base, very much longer than the third joint: chest tinged with gray, tawny on each side in front: abdomen tawny, spindle-shaped, slightly compressed, ferruginous and marked with black towards the tip, nearly twice the length of the chest: legs tawny, clothed with black hairs and bristles; shanks darker than the thighs; feet black; foot-cushions tawny: wings narrow, slightly gray; wing-ribs tawny, veins pitchy, tawny towards the base; tip cross-vein forming hardly more than a right angle with the fourth longitudinal vein (which projects somewhat beyond it), slightly curved inward near the base, straight from thence to the tip, joining the tip of the third longitudinal vein; lower cross-vein with two curves; the lower inward,

deep and short; the other outward, long and slight; scales pale yellow, with tawny borders. Length of the body 4—4½ lines; of the wings 7—8 lines.

a. Egypt. Presented by Sir Gardner Wilkinson.

*DEXIA Hyala*, n. s., fem. *Nigro-cinerea*, *thorace nigro trivittato*, *abdomine nigro-æneo cano tessellato*, *antennis pedibusque nigris*, *alis subcinereis*.

Allied to *Tachina*. Body dull grayish black, clothed with black hairs and bristles: head adorned in front with hoary reflections, clothed beneath with hoary hairs; crown broad; epistoma ferruginous, not prominent; sides of the face beset with bristles at the base: eyes red; fore part slightly convex, its facets larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs at the tip; palpi black, beset with black bristles: feelers black, shorter than the face; third joint deep, full twice the length of the second, increasing much in depth from the base to the tip, which is truncated; bristle very much more than twice the length of the third joint, feathered with short hairs for three-fourths of the length: chest adorned with three indistinct black stripes: abdomen elliptical, brassy black, tessellated with hoary reflections, a little broader, but hardly longer than the chest; sides and hind borders of the segments towards the tip armed with black spines: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein very far removed from the hind border of the wing, forming a nearly right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at a long distance above the tip of the wing; lower cross-vein straight for nearly half its length, very slightly curved outward from thence to the tip; scales pale yellow, with pale tawny borders. Length of the body 2½ lines; of the wings 5 lines.

a. France?

*DEXIA Pandama*, n. s., fem. *Nigra, fulvo tecta, thorace cinereo, abdomine nigro vittato, antennis ferrugineis, pedibus nigris, alis subcinereis*.

Allied to *Tachina*. Body black, clothed with black hairs and bristles: head adorned with a tawny covering; epistoma not prominent, tawny on each side; sides of the face fringed with bristles: eyes pitchy: fore part slightly convex, its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi yellow,

beset with black bristles: feelers ferruginous, shorter than the face; third joint tawny towards the base and beneath, very slightly decreasing in depth from the base to the tip, which is rounded, less than twice the length of the second joint; bristle black, slender, feathered for full half the length, stout at the base, much more than twice the length of the third joint: chest and breast gray: chest with a slight tawny tinge: abdomen elliptical, not longer nor broader than the chest, adorned with a dull tawny covering; a slight black stripe along the back: legs black; foot-cushions pitchy; thighs and shanks tinged with gray: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein very slightly curved near the base, straight from thence to the tip; scales whitish, with pale yellow borders. Length of the body 2 lines; of the wings 4 lines.

a. ———? Presented by the Entomological Club.

*DEXIA* Sermyla, n. s. *Cinerea, capite albo, thorace vittis quatuor nigris, pectore cano, abdomine cano micante subtus ferrugineo apice compresso, palpis fulvis, antennis basi ferrugineis, pedibus nigris, tibiis ferrugineis, alis sublimpidis.*

Body black, clothed with black hairs and bristles: head covered with white lustre, thickly clothed behind and beneath with yellowish white hairs; epistoma not prominent; sides of the face fringed with bristles at the base: eyes dark red: sucker tawny, clothed with yellow hairs; palpi tawny, beset with black bristles: first and second joints of the feelers ferruginous: chest gray, with the exception of four slender black stripes; breast hoary: abdomen about thrice the length of the chest, spindle-shaped, dark ferruginous beneath, compressed, tapering, and thickly beset with long bristles toward the tip, adorned with hoary reflections, which are chiefly on each side: legs black, clothed with black hairs and bristles; thighs tinged with gray, shanks dark ferruginous; foot-cushions yellow; claws dark tawny, with black tips: wings nearly colourless, rather narrow; wing-ribs tawny; veins black, yellow at the base; tip cross-vein forming a right angle with the fourth longitudinal vein, slightly curved inward at the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales white, with pale yellow borders. Length of the body 6 lines; of the wings 10 lines.

a. Brazil.

*DEXIA longipes*, var.? *Macq. Dipt. Ent. Suppl.* 1846, 187, 4.  
 Mas. et fem. *Cana, capite albo, thoraci vittis sex piceis, abdomine fulvo-cano micante, segmentorum suturis nigris, antennis piceis, articulo 3<sup>o</sup> pedibusque nigris, alis sublimpidis.*

*Male*.—Body hoary, clothed with black hairs and bristles: head white, prominent in front, thickly clothed beneath with white hairs; a pitchy stripe fringed with bristles tapering from the feelers towards the eyelets, where it again widens; face narrow, pale tawny, fringed with bristles at the base; epistoma prominent: eyes deep red, not hairy: sucker black, long, ferruginous and clothed with tawny hairs towards the tip; palpi short, tawny, beset with black bristles: feelers pitchy, shorter than the face; third joint black, slender, linear, rounded at the tip, more than thrice the length of the second joint; bristle tawny, feathered to the tip, stout for about one-sixth of the length from the base, near which it is encircled by a broad black band: chest with three slender, indistinct, pitchy stripes on each side: abdomen obconical, narrower, but hardly larger than the chest, adorned with hoary reflections, which have a tawny tinge; sutures of the segments black: legs black, slender, very long, clothed with short black hairs; each of the two hinder pair nearly twice the length of the body; foot-cushions pale tawny: wings nearly colourless; wing-ribs and veins tawny; veins black towards the tips; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, irregularly and very slightly curved inward till near the tip, where it is a little inclined outward, joining the border at a short distance above the tip of the wing; lower cross-vein with two curves, the lower inward and hardly perceptible, the other distinct and outward; scales large, white, with tawny borders. *Female*.—Abdomen nearly elliptical, a little shorter, but not narrower than the chest: curve of the tip cross-vein more irregular than that of the male; inner curve of the lower cross-vein more distinct. Length of the body 6 lines; of the wings 14 lines.

a. Van Dieman's Land. Presented by the Rev. T. Ewing.

b. New Holland.

Group IX. *Cordyligaster*, *Macq. Dipt. Exot.* ii. 2, 90.

*DEXIA petiolata*, *Wied. Auss. Zweif.* ii. 374, 10. *Cordyligaster petiolatus*, *Macq. Dipt. Exot.* ii. 2, 90, 1. *Nigra, capite argenteo, thorace albo ornato, abdominis suturis canis, palpis anteunis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles: head adorned with silvery lustre, clothed beneath with white hairs; a black stripe fringed with bristles between the eyelets and the feelers; epistoma

not prominent; sides of the face fringed with bristles at the base: eyes red, not hairy: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, shorter than the face; third joint full thrice the length of the second, slightly decreasing in depth from the base to the tip, which is almost truncated; bristle more than twice the length of the third joint, feathered with short hairs to its tip: chest adorned with a white covering: abdomen compressed, obclavate, increasing in depth from the base till near its tip, more than thrice the length of the chest; sutures of the segments hoary: legs black, slender, very long, clothed with black hairs and bristles: wings dark gray, very long and narrow; wing-ribs and veins black: tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, having a very indistinct inward angle at about one-fourth of the length from the base, straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with a short inward curve near the base, and a long outward curve from thence to the tip; both very slight; scales whitish, with sawny borders; poisers tawny. Length of the body 8 lines; of the wings 13 lines.

a. Para. From Mr. Stevens' collection.

### Group X.

**DEXIA** Randa. *Fulva, capite aureo, thorace vittis quatuor flavis ornato, scutello cyaneo, abdomine cyaneo basi subtusque fulvo, palpis antennisque luteis, pedibus fulvis, tibiis posterioribus tarsisque piceis, tarsis anticis ferrugineis, alis fulvis apice fuscis.*

Body bright tawny, clothed with black hairs and bristles: head adorned with golden lustre, and having white reflections along the eyes beneath: a ferruginous stripe fringed with bristles between the eyelets and the feelers; sides of the face prominent and fringed with bristles at the base; epistoma not prominent: eyes red, not hairy; fore part flat, composed of larger facets than those elsewhere: sucker ferruginous, clothed with tawny hairs; palpi luteous, clavate, beset with black bristles: feelers luteous, nearly as long as the face; third joint downy, nearly linear, very slightly concave above, flat beneath, rounded at the tip, about thrice the length of the second joint; bristle black towards the tip, more than twice the length of the third joint, deeply but thinly fringed from the base to the tip: disk of the chest ferruginous, adorned with four pale yellow stripes, and with a blue colour which appears on its hinder part and on the scutcheon; fore part of the breast yellow: abdomen a little longer than broad, broader but hardly longer than the chest, bright blue at the tip beneath and on the whole of the back, excepting the base: legs taw-

ny, clothed with black hairs and bristles; fore feet ferruginous; four hinder shanks and feet pitchy; claws black, tawny at the base; foot-cushions yellow: wings tawny, brown at the tips, pale brown along the hind borders; a long deep brown band beyond the middle of the fore border; tip cross-vein very near the border of the wing, forming a very obtuse angle, or rather a curve, with the fourth longitudinal vein, straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two long and very slight curves, the lower inward, the other outward; middle cross-vein clouded with brown; scales tawny. Length of the body  $5\frac{1}{2}$  lines; of the wings 13 lines.

- a. Brazil. Presented by the Entomological Club.
- b. Brazil. From Mr. Children's collection.

Group XI. *Zelia*, *Desv. Essai Myod.* 314.

Group XII. *Sophia*, *Desv. Essai Myod.* 317.

*DEXIA melaleuca*, *Wied. Auss. Zweif.* ii. 369, 2. *Perty, Del. Anim. Artic.* 186, pl. 37, f. 7. *Sophia punctata*, *Desv. Essai Myod.* 318, 2. *S. vittata?* *Guérin, Icon. Regn. Anim. Scoptiptera melaleuca*, *Macq. Dipt. Exot.* ii. 2, 83, 1. *Sarcophaga nigripennis*, *Guérin et Percheron, Gen. Ins. Dipt.* pl. 5, 4 livr. No. 10.

- a. Brazil. From Mrs. Noel's collection.

Group XIII. *Rutilia*, *Desv. Essai Myod.* 319.

*DEXIA vivipara*, *Guérin, Rev. Zool.* 1843, 270, 10. *Tachina vivipara*, *Fabr. Syst. Antl.* 309, 3. *Wied. Auss. Zweif.* ii. 291, 17.

- a. Port Stephen, New Holland. Presented by the Earl of Derby.
- b. New Holland. Presented by J. Hunter, Esq.
- c. West Australia. From Mr. Clifton's collection.
- d. New Holland. From Mr. Children's collection.
- e. New Holland.

*DEXIA, Durvillei.*

*RUTILIA Durvillei*, *Desv. Essai Myod.* 321, 4. *Guérin, Rev. Zool.* 1843, 270, 9.

- a. Swan River. Presented by Sir J. Richardson.
- b. West Australia. From Mr. Clifton's collection.
- c. ———? From Mr. Children's collection.



**DEXIA testacea.** *Diaphania testacea*, Macq. *Dipt. Exot.* ii. 121, 1, pl. 14, f. 8.

a. New Holland. Presented by the Haslar Hospital.

b, New Holland. Presented by the Entomological Club.

**DEXIA Aditha**, n. s., mas. *Cyaneo-viridis, capite piceo, thorace vittis quatuor æneis, scutello abdomineque ferrugineis, cyaneo purpureoque micantibus, abdomine nigro vittato fasciisque albis ornato, palpis fulvis apice piceis, antennis piceis basi ferrugineis, pedibus ferrugineis tarsis nigris, alis cinereis.*

Body clothed with black hairs and bristles: head pitchy, adorned with a white covering, thickly clothed beneath with pale yellow shining hairs; a deep brown stripe widening from the eye-lets to the feelers; epistoma tawny, very prominent; sides of the face fringed with bristles for nearly half the length; face ferruginous, with a ridge in the middle and a furrow on each side: eyes red, separated on the crown by a narrow interval; fore part flat, its facets rather larger than those elsewhere: sucker pitchy, tawny and clothed with yellow hairs at the tip; palpi tawny, long, slender, curved, clothed with tawny hairs, pitchy and clothed with black hairs at the tips: feelers ferruginous, much shorter than the face; third joint pitchy, linear, conical at the tip, ferruginous at the base, about twice the length of the second joint; bristle black, downy, much more than twice the length of the third joint, its first and second joints short: chest bluish green, with a slight white covering; fore part adorned with four brassy stripes; disk of the hind part and scutcheon ferruginous, with bluish purple reflections; hind border of the scutcheon armed with black spines: breast dark green, partly clothed with tawny hairs: abdomen obconical, half transparent, furrowed on the back, notched in the tip, a little longer and broader than the chest, ferruginous with bluish green and purple reflections; fore borders of the segments adorned with white lustre; a black stripe along the middle of the back; hind border of the third segment armed with black spines; segments beneath successively more and more retracted towards the base; legs dark ferruginous, clothed with black hairs and bristles; feet black; foot-cushions pitchy: wings slightly gray; a brown spot near the base; wing-ribs and veins tawny; veins black towards the borders; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, a little curved inward near the base, straight from thence to the tip, where it is slightly curved outward, joining the border at some distance above the tip of the wing; lower cross-vein much curved inward near the base, slightly curved outward from thence to the tip;

scales gray, with tawny borders. Length of the body 8 lines ; of the wings 18 lines.

a. Swan River. Presented by Sir. J. Richardson.

*DEXIA* Sabrata, n. s., fem. *Albo-viridis, capite piceo, thorace subvittato, pectore scutello abdomineque ferrugineis purpureo cyaneoque micantibus, palpis antennisque nigris, pedibus ferrugineis, tarsis nigris, alis subcinereis.*

Body clothed with black hairs and bristles: head pitchy, adorned with a white covering, thickly clothed beneath with pale yellow shining hairs ; a broad interval on the crown between the eyes ; a pitchy stripe between the cyelets and the feelers, narrowest in its middle course ; a tawny spot at the base of the feelers ; epistoma tawny, very prominent ; sides of the face fringed with bristles for full one-half of the length ; face ferruginous, with a ridge in the middle and a furrow on each side : eyes dark red ; fore part slightly convex, its facets hardly larger than those elsewhere : sucker pitchy, clothed at the tip with tawny hairs ; palpi black, beset with black hairs : feelers black, a little shorter than the face ; third joint linear, rounded at the tip, full thrice the length of the second joint ; bristle downy, about twice the length of the third joint : chest dull green, adorned with a white covering, which is indistinctly striped ; sides, hind part, and scutcheon ferruginous, with purple reflections ; hind border of the scutcheon armed with black spines ; breast ferruginous, partly bluish purple, and adorned with a white covering : abdomen obconical, half transparent, furrowed on the back, notched in the tip, ferruginous with bluish green and purple reflections, a little longer and broader than the chest ; fore borders of the segments adorned with white lustre ; a black stripe along the middle of the back ; hind border of the third segment armed with black spines ; segments beneath successively more and more retracted towards the base : legs dark ferruginous, clothed with black hairs and bristles ; feet black ; foot-cushions tawny : wings slightly gray ; a brown spot near the base ; wing-ribs and veins tawny ; veins black towards the tips ; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, almost imperceptibly curved inward till very near the tip, where it is curved outward, joining the border at some distance above the tip of the wing ; lower cross-vein much curved inward near the base, slightly curved outward from thence to the tip ; scales gray, with tawny borders. Length of the body 6 lines ; of the wings 16 lines.

a. New Holland. Presented by J. Hunter, Esq.

**DEXIA Ethoda**, n. s., fem. *Cyaneo-viridis albo micans, thorace vittis una ænea duabusque aureo-viridibus ornato, scutello æneo-purpureo, pectore purpureo-cyaneo, abdomine viridi purpureo cyaneoque ornato, palpis fulvis, antennis pedibusque nigris, alis subcinereis.*

Body clothed with black hairs and bristles: head black, adorned with a white covering; a black stripe, gray on the disk, and having a ferruginous spot at each end between the eyelets and the feelers; epistoma black, very prominent; sides of the face fringed with bristles for more than half the length: eyes pitchy; fore part slightly convex, its facets not larger than those elsewhere: sucker black, pitchy and clothed with yellow hairs at the tip; palpi dark tawny, pitchy towards the tips, clothed with black hairs: feelers black, tinged with gray, much shorter than the face; third joint linear, rounded at the tip, about twice the length of the second; bristle downy, nearly thrice the length of the third joint: chest bluish green, tinged with white, fore part adorned with a narrow brassy stripe, and with a broad golden-green stripe on each side; disk of the hind part and scutcheon coppery-purple; hind border of the scutcheon armed with shining black bristles; breast purplish blue: abdomen short-obconical, a little broader but not longer than the chest, furrowed and striped with black on the back, notched in the tip; first segment bluish green; second segment coppery-purple, with golden-green reflections, its hind border armed with black spines, and adorned with a bluish black band bordered with green; third segment like the second, but the purple predominates over the golden-green; fourth segment green, coppery-purple on each side, its hind border armed with black spines; fifth segment golden-green, coppery-purple on the fore border, intense blue on the hind border; fore borders of the segments adorned with a white covering; underside bright deep blue, purple on the hind border of each segment; third segment mostly green: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; a brown spot near the base; wing-ribs and veins ferruginous; tips of the veins black; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, having an almost imperceptible inward curve from the base till near the tip, where it is slightly inclined outward; lower cross-vein with two curves, the lower inward, the other outward, more slight and irregular than the first. Length of the body 8 lines; of the wings 18 lines.

a. Swan River. Presented by Sir John Richardson.

**DEXIA inornata.** *Rutilia inornata*, Guérin, *Rev. Zool.* 1843, 268, 7. *Macq. Dipt. Exot. Suppl.* 1846, 178, 7, pl. 16, f. 5.  
*a.* New Holland.

**DEXIA Potina**, n. s., fem. *Picea, albo ornata, scutello abdominisque segmentorum marginibus anticis ferrugineis, palpis fulvis, antennis piceis, pedibus nigris, alis limpidis.*

Body clothed with black hairs and bristles: head pitchy, adorned with a white covering, which does not appear on the broad furrowed stripe between the eyelets and the feelers; epistoma tawny, shining, very prominent; middle ridge of the face tawny, covered with white bloom; sides covered with tawny down, fringed with bristles for more than half the length: eyes dark red; facets of the fore part very small: sucker black, clothed at the tip with tawny hairs: palpi long, slender, dark tawny, clothed with short black hairs; their tips black: feelers pitchy, not more than half the length of the face; second joint armed with a long bristle; third joint linear, rounded at the tip, more than twice the length of the second; bristle black, slightly downy, much more than twice the length of the third joint: chest pitchy, armed with some black spines at the base of the wings; hind part and scutcheon ferruginous: abdomen pitchy, obconical, full as broad and as long as the chest; fore borders of the segments somewhat ferruginous, tinged with white bloom; hind border of the third segment armed with spines: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings colourless, with a large brown spot near the base, which is tawny; wing-ribs and veins ferruginous; veins black towards the tips; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very slightly curved inward near the base, straight from thence to the tip, where it is very slightly curved outward, joining the border at a short distance above the tip of the wing; lower cross-vein with two curves, the lower inward, much deeper and shorter than the other, which is outward; scales whitish, with yellow borders. Length of the body 7 lines; of the wings 16 lines.

*a.* Van Dieman's Land. Presented by the Rev. T. Ewing.

**DEXIA Barcha**, n. s., fem. *Ferruginea, capite piceo, thoracis disco, abdominis vitta et segmentorum marginibus posticis nigris, marginibus anticis albo ornatis, palpis fulvis, antennis piceis, pedibus nigris, alis limpidis.*

Body clothed with black hairs and bristles: head pitchy; a black stripe between the eyelets and the feelers; epistoma black, very prominent; fore border ferruginous; facials dark red; middle

ridge of the face ferruginous; sides covered with tawny down, fringed with bristles on nearly half the length: eyes red; fore part flat, its facets not larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs towards the tip; palpi tawny, long, slender, beset with short black hairs: feelers pitchy, much shorter than the face; third joint ferruginous, linear, pitchy at the base, rounded at the tip, more than twice the length of the second joint; bristle black, downy, more than twice the length of the third joint; its first joint short: chest and breast very dark ferruginous: disk of the chest black, its sides armed with a few black spines: abdomen obconical, a little longer and broader than the chest, very dark ferruginous, tinged with blue; fore borders of the segments covered with white bloom; hind borders black; a black stripe and a furrow along the middle; tip notched: legs black, clothed with black hairs and bristles; foot-cushions dark tawny: wings colourless; a large blackish brown spot near the base; wing-ribs and veins ferruginous; veins black towards the tips; tip cross-vein forming a right angle with the fourth longitudinal vein, having an almost imperceptible inward curve from thence till near the tip, where it is slightly curved outward, joining the border at some little distance above the tip of the wing; lower cross-vein having a very slight inward curve at one-third of its length, almost straight from thence to the tip; middle cross-vein with a clouded knob on the outer side near the base; scales dingy yellow, with black borders. Length of the body 6—7 lines; of the wings 16—18 lines.

a. New Holland.

*DEXIA* Idesa, n. s., fem. *Viridis, capite thoracis lateribus abdomine-  
que ferrugineis, abdominis segmentis viridi quadrimaculatis, vitta  
marginibusque posticis nigris, palpis fulvis, antennis ferrugineis,  
pedibus nigris, tibiis ferrugineis, alis limpidis.*

Body clothed with black hairs and bristles: head pale ferruginous: a black stripe fringed with bristles between the eyelets and the feelers; epistoma prominent; sides of the face covered with tawny down, fringed with bristles for near half the length; eyes dark red; fore part convex, its facets a little larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, long, slender, beset with short black hairs: feelers pale ferruginous, not more than half the length of the face; second joint armed with a long bristle; third joint linear, rounded at the tip, more than twice the length of the second joint; bristle black, hardly downy, much more than twice the length of the third joint; its first and second joints short: chest and breast green; sides ferruginous, clothed with tawny hairs; sides of the hinder part and

of the scutcheon armed with black spines : abdomen obconical, ferruginous, hardly broader and not longer than the chest ; hind border of third segment armed with black spines ; a narrow black band on the hind border of each segment ; a broad black stripe along the back, which is not furrowed ; tip truncated, not notched ; each segment adorned with two round bright green spots on the back, and with a triangular spot of the same colour on each side ; last segment mostly green : legs black, clothed with black hairs and bristles ; shanks dark ferruginous : wings colourless ; a blackish brown spot near the base, which is slightly tawny ; wing-ribs and veins dark ferruginous ; veins black towards the tips ; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward along some part of its course, straight from thence till near the tip, where it is inclined outward ; lower cross-vein with two very slight curves, the lower inward, the upper outward and somewhat irregular ; scales pale yellow, with brown borders. Length of the body 6 lines ; of the wings 12 lines.

a. New Holland. Presented by the Haslar Hospital.

DEXIA Onoba, n. s., mas. *Cyaneo-viridis albo micans, capite nigro, thorace aeneo subvittato, lateribus scutello abdominisque basi ferrugineo purpureoque ornatis, abdominis vitta nigra, antennis palpisque nigris, pedibus ferrugineis, tarsis nigris, alis subcine-reis.*

Body clothed with black hairs and bristles : head black, adorned with a white covering and with a dark brown stripe, which widens from the eyelets to the feelers, clothed beneath with yellow hairs ; epistoma dark tawny, very prominent ; sides of the face fringed with bristles along half the length : eyes dark red ; fore part rather flat, its facets not larger than those elsewhere : sucker black, pitchy and clothed with tawny hairs at the tip ; palpi black, clothed with black hairs : feelers black, much shorter than the face ; tip of the second joint ferruginous ; third joint linear, ferruginous at the base, rounded at the tip, more than twice the length of the second joint ; bristle nearly twice the length of the third joint : chest bluish-green, with a whitish covering, and adorned with some indistinct brassy stripes ; sides and scutcheon tinged with ferruginous and purple colour : breast mostly black ; abdomen obconical, a little broader, but not longer than the chest ; first, second and third segments ferruginous, adorned with blue-green and purple reflexions, tinged with white along the fore borders ; fourth segment bright bluish green ; a furrow and a black stripe along the back, and a notch at the tip of the abdomen ; under side tawny, tinged with blue and green on the sides and towards the tip : legs

dark ferruginous, clothed with black hairs and bristles; feet black; foot-cushions tawny: wings slightly gray; wing-ribs and veins dark ferruginous; veins black towards the tips; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, till near the tip, where it has a slight outward inclination, joining the border at a short distance above the tip of the wing; lower cross-vein with two curves, the lower inward, much deeper than the other, which is outward; scales gray, with tawny borders. Length of the body 6 lines; of the wings 16 lines.

a. New Holland.

DEXIA Uzita, n. s., fem. *Viridis, capite fulvo, thoracis lateribus cyaneis, scutelli apice purpureo, pectore abdomineque aureo-viridibus, abdominis vitta et segmentorum marginibus posticis nigris, palpis flavis, antennis nigris basi ferrugineis, pedibus nigris, alis limpidis.*

Body clothed with black hairs and bristles: head tawny and tinged with white in front, bright green behind and beneath, pitchy with a tawny tinge on the crown; a ferruginous stripe between the eyelets and the feelers; epistoma extremely prominent; ridge of the face pale ferruginous, with a bright green spot at the tip adjoining the epistoma; sides of the face fringed with bristles along one-third of the length: eyes brassy red; fore part nearly flat, its facets very small: sucker black, clothed at the tip with tawny hairs; palpi pale yellow, long, very slender, beset with short black hairs: feelers ferruginous; third joint black, ferruginous at the base, more than twice the length of the second joint, which is armed with a black bristle: chest bright green, bluish on each side and on the scutcheon, whose tip is tinged with purple; fore part adorned with five indistinct, darker stripes: breast golden green, bluish on each side, clothed with tawny hairs: abdomen golden green, obconical, a little shorter and broader than the chest, bluish green on each side and at the tip, not furrowed nor notched at the tip; a black stripe along the middle, and a broad black band on the hind border of each segment: legs black, clothed with black hairs and bristles; foot-cushions tawny, with very long, forked, spindle-shaped, pale tawny appendages: wings colourless, a large dark brown spot near the base, which is tawny; wing-ribs ferruginous; veins black, ferruginous at the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, almost imperceptibly curved inward along the whole length to the tip, which has a slight outward inclination, joining the border a little above the tip of the wing;

lower cross-vein with two very slight curves, the lower inward, the upper outward; scales white, with pale yellow borders. Length of the body 6 lines; of the wings 16 lines.

a. New Holland?

*DEXIA retusa?* *Musca retusa?* *Fabr. Ent. Syst. iv. 316, 15. Syst. Antl. 288, 22. Wied. Auss. Zweif. ii. 420, 64. Mas. Viridis, capite fulvo, thorace vittis quatuor æneis, abdomine æneo-viridi, vitta et segmentorum marginibus posticis nigris, palpis fulvis, antennis ferrugineis, pedibus nigris, tibiis nigro-ferrugineis, alis limpidis.*

Body clothed with black hairs and bristles: head bright tawny; crown pitchy, with a broad, many-furrowed, ferruginous stripe between the eyelets and the feelers; epistoma prominent; sides of the face fringed with bristles for one-third of the length from the base: eyes pitchy; fore part nearly flat, its facets very small: sucker black, clothed with yellow hairs; palpi tawny, beset with short, black hairs: feelers pale ferruginous, much shorter than the face; third joint linear, rounded at the tip, more than twice the length of the second joint; bristle black, downy, much more than twice the length of the third joint, its second joint short, but longer than the first: chest and breast bright green, the latter clothed with tawny hairs; fore part of the chest adorned with four brassy stripes; hind part and scutcheon bluish green: abdomen obconical, brassy green, a little broader, but not longer than the chest; a narrow black band on the hind border of each segment, and a broader black stripe along the back; no furrow nor notch at the tip: legs black, clothed with black hairs and bristles; shanks very dark ferruginous; foot-cushions tawny; wings colourless; a dark brown spot near the base which is tawny; wing-ribs and veins ferruginous; veins black towards the tips; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, very slightly inclined inward near the base, straight from thence till near the tip, where it is almost curved outward; lower cross-vein with two extremely slight curves, the lower inward, the upper outward; scales tawny. Length of the body 6 lines; of the wings 16 lines.

a. New Holland.



**DEXIA** Panthea, n. s., fem. *Aureo-viridis cyaneomicans, capitis vertice fulvo, thoracis vittis quatuor æneis, scutello cyaneo, abdomine cupreo, vitta dorsali et segmentorum marginibus posticis nigris, palpis fulvis, antennis nigris basi ferrugineis, pedibus nigris, alis limpidis.*

Body clothed with black hairs and bristles: head thickly covered with bright tawny down, bright bluish green behind and beneath, dark tawny on the crown, having a whitish tinge in front; a ferruginous stripe widening from the eyelets to the feelers; epistoma very prominent; sides of the face fringed with bristles along nearly half the length; sucker black, clothed at the tip with tawny hairs; palpi tawny, long, slender, beset with short black hairs: eyes pitchy; fore part nearly flat; all the facets small: feelers ferruginous, short, not more than half the length of the face; second joint armed with a bristle; third joint black, conical at the tip, ferruginous at the base, less than twice the length of the second; bristle black, downy, about thrice the length of the third joint: chest golden-green, tinged with blue, adorned with four bronze stripes; scutcheon bright blue; breast bluish green, clothed with tawny hairs: abdomen bright reddish copper-colour, which is mingled with green at the base and on each side; a black stripe along the back and a black band on the hind border of each segment; no furrow nor notch at the tip; segments on the underside slightly retracted towards the base: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings colourless, with a brown spot near the base, which is tawny on the fore border; wing-ribs ferruginous; veins black, ferruginous at the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, almost imperceptibly curved inward till near the tip, where it has a slight outward inclination joining the border; lower cross-vein with a slight inward curve near the base, straight from thence for some space, and afterwards slightly waving to the tip; scales gray, with tawny borders. Length of the body 7 lines; of the wings 18 lines.

a. West Australia. From Mr. Clifton's collection.

**DEXIA** formosa. *Rutulia formosa*, Desv. *Essai Myod.* 320, 2. *R. splendida?* Macq. *Dipt. Exot.* ii. 81, 1, pl. 9, f. 5, 6. Guérin, *Rev. Zool.* 1843, 266, 3.

a. New Holland.

**DEXIA** regalis. *Rutulia regalis*, Guérin, *Rev. Zool.* 1843, 266, 1. *Voy. Coq. Zool.* ii. pl. 21, f. 1. *Musca regalis*, Guérin, *Voy. Coq. Zool.* ii. 21st div. 296.

a. New Holland. Presented by the Entomological Club.

*DEXIA splendida*. *Musca splendida*, *Donovan, Gen. Ill. Ent. i. pl. Hym. Dipt. f. \** *Wied. Auss. Zweif. ii. 285, 3. Rutilia splendida*, *Guérin, Rev. Zool. 1843, 266, 5. Macq. Dipt. Exot. Suppl. 1846, 178, 9. R. Australasiæ, G. R. Gray, Griff. Cuv. Anim. Kingd. Ins. ii. pl. 144, f. 1.*

- a. Sydney, New South Wales. Presented by Dr. Sinclair.
- b. New Holland. Presented by the Linnean Society.
- c. Swan River. Presented by Sir J. Richardson.
- d. Swan River. From Mr. Lambert's collection.
- e. Swan River.

*DEXIA Zabirna*, n. s., mas. *Viridis albo-micans, capite ferrugineo, thorace maculis octo nigris ornato, scutello ferrugineo, abdominis basi apiceque nigris, palpis fulvis, antennis ferrugineis, pedibus nigris, tibiis ferrugineis, alis limpidis.*

Body clothed with black hairs and bristles: head ferruginous, adorned with white lustre round the eyes, golden-green beneath; a pitchy stripe fringed with bristles, widening from the eyelets to the feelers; epistoma very prominent; sides of the face fringed with bristles for two-thirds of the length from the base: eyes dark red; fore part slightly convex, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, long and very slender, beset with short black hairs: feelers ferruginous, short, not more than half the length of the face; second joint armed with a bristle; third joint linear, black from the middle to the tip, which is rounded, about twice the length of the second joint; bristle bare, nearly thrice the length of the third joint: chest green, slightly tinged with white, adorned with eight deep black spots or short stripes, which are disposed in two cross rows; the two inner pair are shorter than the two outer pair; scutcheon ferruginous, tinged with bluish green: abdomen obconical, bluish green, with white reflections, not furrowed nor notched, a little broader and shorter than the chest; first segment and tip black; hind border of the third segment armed with spines; a slender interrupted black stripe along the back, and a broad black band on the hind border of each segment: legs black, clothed with black hairs and bristles; shanks dark ferruginous; foot-cushions pitchy: wings colourless; a small pale brown spot near the base, which it joins on the fore border; wing-ribs ferruginous; veins black; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, almost imperceptibly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two distinct curves, the lower inward, the up-

per outward; scales gray, with tawny borders. Length of the body 6 lines; of the wings 14 lines.

a. West Australia. From Mr. Clifton's collection.

*DEXIA decora.* *Rutelia decora*, Guérin, *Rev. Zool.* 1843, 216, 3.  
*Macq. Dipt. Exot. Suppl.* 1846, 180, 13.

a. New Holland. Presented by the Haslar Hospital.

b. Adelaide. Presented by the Entomological Club.

c. ———?

*DEXIA Chersipho*, n. s., fem. *Purpurea*, capite luteo, thorace cyaneo vittato et maculato, abdomine nigro-purpureo, fasciis tribus abbreviatis cyaneo-viridibus micante, palpis fulvis, antennis ferrugineis, pedibus nigris, alis limpidis basi fulvis fusco maculatis.

Body clothed with black hairs and bristles: head bright orange-colour, beneath golden-green, which colour passes into bluish-green on one side, and into coppery-purple on the other; crown dark orange; a ferruginous stripe widening from the eyelets to the feelers; epistoma very prominent; sides of the face fringed with bristles along half the length: eyes pitchy; fore part flat, its facets a little larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, slender, very long, beset with short black hairs: feelers bright pale ferruginous; second joint armed with a bristle; third joint linear, conical at the tip, about thrice the length of the second; bristle black, bare, much more than twice the length of the third joint; its second joint short but longer than the first: chest purple, adorned in front with two short pale blue stripes, and on each side with a cluster of three small spots, behind which there is a short stripe of the same colour: breast blue, tinged with green and purple: abdomen obconical, a little broader but not longer than the chest, blackish purple, adorned on each side with three brilliant bluish green short bands, extending equally above and beneath; the hindmost pair occupy the tip and are there united; no furrow nor notch at the tip: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings colourless, dark brown near the base, which is tawny; wing-ribs pitchy; veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward before the middle, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein straight, with the exception of two very slight curves, one inward near the base, the other

outward near the tip; scales dingy white, with tawny borders. Length of the body 5 lines; of the wings 14 lines.

a. ———? From Mr. Children's collection.

*DEXIA serena*, n. s., fem. *Aureo-viridis, thorace cyaneo micante vittis quatuor nigris, scutelli disco purpureo-nigro, margine postico purpureo-nigro, abdomine purpureo fasciis aureis viridibus et cyaneis, apice ventree cupreis, palpis fulvis, antennis ferrugineis, pedibus nigris, alis limpidis.*

Body clothed with black hairs and bristles: head golden, bright green beneath, adorned with white lustre behind the eyes; a ferruginous stripe widening from the oyelets to the feelers; epistoma very prominent; sides of the face fringed with bristles along half the length: eyes pitchy; fore part nearly flat, its facets a little larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs at the tip; palpi tawny, thinly clothed with short tawny hairs: feelers pale ferruginous, very short, less than half the length of the face, almost hidden in the cavities formed by the high middle ridge between them; this ridge much exceeds them in length, but extends hardly more than half way to the border of the epistoma; third joint slightly convex above and below, rounded at the tip, full thrice the length of the second joint; bristle black, downy, more than twice the length of the third joint, its first and second joints very short; first joint ferruginous: chest golden-green, slightly tinged with blue, adorned with four indistinct black stripes; disk of the scutcheon purplish blue; hind border tawny; breast bluish green, tinged with purple on each side, clothed with pitchy hairs: abdomen obconical, purple, very little broader and hardly longer than the chest; fore border of each segment adorned with a golden interrupted band, which is bordered with green and blue; last segment and underside bright copper-colour; hind borders of the segments beneath black, which colour passes to the copper hue by means of purple, blue, green and gold: legs black, clothed with black hairs and bristles; foot-cushions dingy yellow: wings colourless, with a small brown spot on the fore borders near the base; shoulders pale tawny; wing-ribs pitchy, veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, almost straight, the inward curve being nearly imperceptible, but there is a very short and slight outward curve at the tip, which joins the border at some distance above the tip of the wing; lower cross-vein with two extremely slight curves, the lower inward, the other outward; scales dingy white, with dark tawny borders. Length of the body 5 lines; of the wings 14 lines.

a. Madras. Presented by Walter Elliott, Esq.

Group XIV. Formosia? Guérin, *Rev. Zool.* 1843.

**DEXIA** Hypsa, n. s., mas. *Cyaneo-viridis, scutello aeneo-viridi, abdomine aureo-viridi albo micante segmentorum marginibus posticis nigris, apice cupreo, palpis ferrugineis, antennis piceis, pedibus nigris femoribus tibiisque apice ferrugineis, alis limpidis.*

Body black, clothed with black hairs and bristles: head with a tawny covering above, ferruginous along the sides of the face, dark bluish green beneath, where it is thickly clothed with hoary hairs; epistoma prominent; sides of the face not bristly; no middle ridge: eyes dark red, meeting on the crown; fore part flat, its facets very much larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi ferruginous, long, slender, beset with short black hairs: feelers pitchy, nearly as long as the face; third joint slender, linear, rounded at the tip, about six times the length of the second; bristle black, very deeply feathered, much longer than the third joint: chest in front purple, tinged with blue and green; hind part and scutcheon mostly coppery-green; breast bluish green, clothed with tawny hairs, brassy on each side: abdomen obconical, much shorter but not broader than the chest; first, second, and third segments golden-green, with a slight white bloom, bluish along the hind borders, which are black; fourth and fifth segments reddish copper-colour, clothed with tawny hairs; hind border of the fourth segment dark blue: legs black, clothed with black hairs and bristles; thighs and shanks dark ferruginous towards the tips; foot-cushions tawny: wings colourless, with a dark brown spot near the base, which is slightly tawny; wing-ribs pitchy; veins black; tip cross-vein forming hardly more than a right angle with the fourth longitudinal vein, curved slightly inward along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, rather more distinct than the other, which is outward; scales gray. Length of the body 4 lines; of the wings 10 lines.

**DEXIA** Chrysame, n. s., fem. *Aureo-viridis, maculis albis ornata, capite aureo, palpis fulvis, antennis ferrugineis, pedibus nigris, alis limpidis.*

Body clothed with black hairs and bristles: head bright gold-colour, white behind, clothed beneath with tawny hairs; crown very broad; epistoma prominent; face with a high middle ridge, its sides fringed with bristles along half the length: eyes dark red, with a black stripe near the hind border; fore part convex, its facets

a little larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, slender, beset with black bristles: feelers bright pale ferruginous, shorter than the face; second joint darker; third joint linear, slender, rounded at the tip, full four times the length of the second; bristle black, deeply feathered, very much longer than the third joint; its first and second joints ferruginous, very short: chest golden-green, adorned with white spots on each side, and with two short white stripes in front: abdomen obconical, golden-green, shorter and a little broader than the chest, adorned on each side with two white spots, one on the second, the other on the fourth segment; hind borders of the segments armed with spines: legs black, clothed with black hairs and bristles: wings colourless, blackish brown, with a colourless spot at the base; wing-ribs and veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two almost imperceptible curves, the lower inward, the other outward; scales large, brown, white towards the base. Length of the body 3 lines; of the wings 6 lines.

a. New Holland. Presented by the Entomological Club.

#### Group XV. *Aminia*, *Desv. Essai Myod.* 443.

*DEXIA leonina*, *Fabr. Syst. Ent.* 776, 12. *Ent. Syst.* iv. 318, 24. *Syst. Antl.* 290, 33. *Wied. Auss. Zweif.* ii. 389, 10. *Rutilia leonina*? *Desv. Essai Myod.* 320, 1. *Aminia imperialis*, *Desv. Essai Myod.* 443, 1. *A. leonina*? *Desv. Essai Myod.* 444, 2. *Macq. Dipt. Exot.* ii. 117, 1, *pl.* 14, *f.* 5.

a. New Holland. Presented by the Haslar Hospital.

b. New Holland. From Mr. Argent's collection.

c. New Holland.

#### Group XVI. *Amphibolia*, *Macq. Dipt. Exot.* ii. 122.

*DEXIA Valentina*. *Amphibolia Valentina*, *Macq. Dipt. Exot.* ii. 122, 1, *pl.* 14, *f.* 9.

a. Van Dieman's Land. Presented by the Rev. Augustus Beaufort.

b. Van Dieman's Land. Presented by the Rev. T. Ewing.

c. West Australia. From Mr. Clifton's collection.

d. New Holland. From Mr. Argent's collection.

- Group XVII. *Macromya*, *Desv. Essai Myod.* 322.  
 Group XVIII. *Harrisia*, *Desv. Essai Myod.* 323.  
 Group XIX. *Leschenaultia*, *Desv. Essai Myod.* 324.  
 Group XX. *Theresia*, *Desv. Essai Myod.* 325.  
 Group XXI. *Phorostoma*, *Desv. Essai Myod.* 326.  
 Group XXII. *Myostoma*, *Desv. Essai Myod.* 327.  
 Group XXIII. *Billæa*, *Desv. Essai Myod.* 328.  
 Group XXIV. *Myocera*, *Desv. Essai Myod.* 328.

### MUSCA, *Linnaeus*.

#### A. Muscidæ Floricolæ, *Desv. Essai Myod.* 375.

- Group I. *Clytho*, *Desv. Essai Myod.* 375.  
 Group II. *Agria*, *Desv. Essai Myod.* 376.  
 Group III. *Gesneria*, *Desv. Essai Myod.* 378.  
 Group IV. *Myorhina*, *Desv. Essai Myod.* 383.  
 Group V. *Conomya*, *Desv. Essai Myod.* 384.

#### B. Muscidæ Testacæ, *Desv. Essai Myod.* 425.

##### Group I. *Bengalia*, *Desv. Essai Myod.* 425.

MUSCA jejuna, *Fabr. Ent. Syst.* iv. 312, 1. *Syst. Antl.* 283, 1.  
*Wied. Auss. Zweif.* ii. 386, 4. *M. torosa*, *Wied. Zool. Mag.*  
 iii. 21, 29. *Bengalia testacea*, *Desv. Essai Myod.* 426, 1.  
*Ochromyia jejuna*, *Macq. Hist. Nat. Dipt.* ii. 249, 1.

a. ———?

MUSCA pallens. *Bengalia pallens*, *Desv. Essai Myod.* 426, 3.

a. ———?

##### Group II. *Phumosia*, *Desv. Essai Myod.* 427.

##### Group III. *Ormia*, *Desv. Essai Myod.* 428.

MUSCA punctata. *Ormia punctata*, *Desv. Essai Myod.* 428, 1.  
*Ochromyia punctata*, *Macq. Hist. Nat. Dipt.* ii. 250, 3.

a. *Jamaica*.

b. ———?

*MUSCA* Dioclea, n. s. *Fulva*, abdominis apice piceo, antennis pedibusque fulvis, alis fuco-cinereis basi fulvis, costa apicem versus nigro-fusca.

Head tawny, dark tawny on the crown; epistoma slightly prominent; sides of the face without bristles: eyes pitchy; fore part flat, its facets larger than those elsewhere: feelers tawny; third joint linear, rounded at the tip, full four times the length of the second; bristle black towards the tip, much longer than the third joint: disk of the chest dark tawny; tip of the scutcheon armed with a few black spines: abdomen obconical, a little broader but not longer than the chest, pitchy towards the tip: legs pale tawny; feet dark tawny: wings brownish gray, tawny towards the base, dark brown along the fore border from half the length to the tip; wing-ribs ferruginous; veins pitchy, ferruginous towards the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, curved inward, joining the border a little above the tip of the wing; lower cross-vein with two curves, the lower inward, longer than the other, which is deeper and outward; scales tawny. Length of the body 4 lines; of the wings 9 lines.

a. ———?

Group IV. *Palpostoma*, Desv. *Essai Myod.* 429.

C. *Muscidæ metallicæ*, Desv. *Essai Myod.* 441.

Group I. *Silbomyia*, Macq. *Dipt. Exot.* ii. 119.

*MUSCA* fuscipennis, Fabr. *Syst. Antl.* 291, 37. *Wied. Auss. Zweif.* ii. 388, 8. *Silbomyia* fuscipennis, Macq. *Dipt. Exot.* ii. 119, 1.

a. Java.

b. ———?

Group II. *Chrysomyia*, Desv. *Essai Myod.* 445.

*MUSCA* marginalis, Wied. *Auss. Zweif.* ii. 395, 18.

a. South Africa. Presented Dr. A. Smith.

b. Congo.

c. ———?

*MUSCA* putoria, Wied. *Auss. Zweif.* ii. 403, 32.

a. (Var.?) Sierra Leone. Presented by the Rev. D. F. Morgan.



*MUSCA chloropyga*, Wied. Zool. Mag. ii. 44. Auss. Zweif. ii. 400, 28.

a. South Africa. Presented by Dr. A. Smith.

b. Cape.

c. ———?

*MUSCA flaviceps*. *Lucilia flaviceps*, Macq. Dipt. Exot. ii. 2, 145, 23, pl. 18, f. 1.

a. Madras. Presented by Walter Elliot, Esq.

*MUSCA orientalis*. *Lucilia orientalis*, Macq. Dipt. Exot. ii. 2, 145, 22, pl. 18, f. 2.

a. Madras. Presented by Walter Elliot, Esq.

*MUSCA megacephala*, Fabr. Ent. Syst. iv. 317, 18. Syst. Antl. 289, 27. Wied. Auss. Zweif. ii. 399, 27.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*MUSCA Elara*, n. s., fem. *Aureo-viridis, capite albo micante, thoracis segmentorum marginibus posticis nigro-cyaneis, palpis fulvis, antennis piccis, pedibus ferrugineis, femoribus nigro-cyaneis, alis limpidis basi nigro-fuscis.*

Body bright golden-green, thinly clothed with black hairs and bristles: head adorned with white reflections, tawny and clothed with short white hairs in front; epistoma slightly prominent; sides of the face beset with bristles at the base: eyes pitchy or dark red: sucker black, ferruginous and clothed with tawny hairs at the tip; palpi tawny: feelers pitchy, shorter than the face; third joint full four times the length of the second, slightly increasing in depth from the base to the tip, which is rounded; bristle black, very much longer than the third joint, deeply fringed: breast partly blue: abdomen nearly elliptical, a little shorter than the chest; hind borders of the segments blackish blue; last segment brighter and more golden than the rest of the body: legs dark ferruginous, clothed with black hairs and bristles; thighs mostly bluish black; foot-cushions pitchy: wings colourless, dark brown at the base; wing-ribs and veins black; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward before half its length, straight from thence to the tip, where it has an almost imperceptible outward curve; lower cross-vein with two curves, the lower inward, shorter but not deeper than the other, which is outward; scales white, with very pale yellow borders. Length of the body 3—3½ lines; of the wings 7—8 lines.

a. South Africa. Presented by Dr. A. Smith.

**MUSCA** Tifata, n. s., mas. *Viridis, albo micans, thorace vittis tribus æneis, abdominis segmentorum marginibus posticis cyaneis, palpis fulvis, antennis pedibusque piceis, femoribus nigro-cyaneis, alis subcinereis basi fuscis.*

Body clothed with black hairs and bristles: head dull green, adorned with white lustre: a double row of black bristles between the eyes; epistoma rather prominent, pale ferruginous; sides of the face fringed with bristles at the base; peristoma tawny: eyes red: sucker black, ferruginous and clothed with tawny hairs at the tip: palpi tawny: feelers pitchy, a little shorter than the face; third joint full four times the length of the second, ferruginous at the base, linear, rounded at the tip; bristle black, longer than the third joint: chest green, slightly tinged with white, adorned in front with three indistinct and interrupted copper stripes: abdomen nearly elliptical, a little shorter and broader than the chest; hind borders of the segments blue, especially on each side, where they are partly purple: legs pitchy; hips and thighs bluish black; foot-cushions dark tawny: wings slightly gray, brown at the base; wing-ribs and veins black; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, very slightly curved inward at one-fourth of its length, straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein very slightly curved inward near the base, and thence having an irregular and almost imperceptible outward curve which continues to the tip; scales white, with tawny borders. Length of the body 4 lines: of the wings 8 lines.

a. China. Presented by G. T. Lay, Esq.

**MUSCA** Remuria, n. s., fem. *Cyaneo-viridis, æneo viria albo tecta, scutello cyaneo, abdomine aureo-viridi segmentorum marginibus posticis cyaneis, antennis palpisque fulvis, pedibus nigris, tibiis ferrugineis, alis limpidis basi subfulvis.*

Body clothed with black hairs and bristles: head pitchy above, tawny and slightly tinged with white in front; a dark ferruginous stripe between the eyelets and the feelers; epistoma prominent; sides of the face fringed with bristles at the base: eyes bright red: sucker black, ferruginous and clothed with tawny hairs at the tip: palpi tawny: feelers bright tawny, a little shorter than the face; third joint full four times the length of the second, slightly decreasing in depth from the base to the tip, which is rounded; bristle dark tawny, a little longer than the third joint: chest bluish green, adorned with a coppery tinge and slightly covered with white bloom in front; scutcheon blue: abdomen nearly elliptical, a little

broadier but not longer than the chest, golden-green, especially at the tip, where it is clothed with tawny hairs; its base, and the hind border of each segment blue, the latter colour appears chiefly on each side, where it is varied with purple, and has a green band between it and the golden hue: legs black, thinly clothed with black hairs and bristles; thighs tinged with blue; shanks dark ferruginous; foot-cushions dark tawny: wings colourless, with a slight tawny tinge at the base; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward before one-fourth of its length, nearly straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two slight curves, the lower inward, shorter but not deeper than the other, which is outward; scales gray, with dark tawny borders. Length of the body 4 lines; of the wings 8 lines.

a. China. Presented by G. T. Lay, Esq.

*MUSCA* Emoda, n. s., fem. *Viridis, capite fulvo supra piceo, scutello abdomineque cyaneo-iridibus, hujus apice aureo-iridi, antennis piceis, palpis pedibusque fulvis, tarsis nigris, alis limpidis.*

Body clothed with black hairs and bristles: head pitchy above, bright tawny and clothed with short white hairs in front; a ferruginous stripe between the eyelets and the feelers; epistoma prominent; sides of the face beset with very few bristles at the base: eyes pitchy; fore part as usual flat, and composed of larger facets than those elsewhere: sucker black, ferruginous and clothed with tawny hairs towards the tip; palpi tawny: feelers pitchy, nearly as long as the face; second joint ferruginous; third joint full four times the length of the second, flat above, slightly convex beneath, rounded at the tip; bristle dark tawny, much longer than the third joint: chest green; scutcheon bluish green: abdomen elliptical, bluish green, a little broader but not longer than the chest, golden-green towards the tip, which is clothed with short white hairs: legs tawny, thinly clothed with black hairs and bristles; feet black; foot-cushions pale tawny: wings colourless; wing-ribs and veins ferruginous; veins pitchy towards the tips; tip cross-vein forming a right angle with the fourth longitudinal vein, curved inward along one-fourth of its length, straight during the latter part of its course, joining the border at a short distance above the tip of the wing; lower cross-vein with two curves, the lower inward, much deeper than the other, which is outward; scales yellowish white, with pale yellow borders. Length of the body 3 lines; of the wings 6 lines.

a. Egypt. Presented by Sir Gardner Wilkinson.

**MUSCA** Certima, n. s., fem. *Cyaneo-viridis, capite luteo, thorace vittis quinque purpureis, scutello cyaneo, abdomine albo micante, apice aureo, segmentorum marginibus posticis cyaneis, palpis fulvis, antennis pedibusque ferrugineis, femoribus nigro-æneis, alis subcinereis.*

Body thinly clothed with black hairs and bristles: head tawny above, luteous and clothed with bright tawny hairs in front and beneath; a ferruginous stripe fringed with bristles between the eyelets and the feelers; epistoma very prominent; sides of the face beset with very few bristles at the base: eyes red; fore part flat, composed of larger facets than those elsewhere: sucker black, clothed at the tip with pale tawny hairs; palpi tawny, slender, beset with black bristles: feelers ferruginous, a little shorter than the face; third joint paler and shining at the base, about four times the length of the second, slightly decreasing in depth from the base to the tip, which is rounded; bristle ferruginous, much longer than the third joint: chest bluish green, adorned with five dark purple stripes; scutcheon bright blue: abdomen elliptical, green, adorned with white reflections, a little broader, but not longer than the chest; hind borders of the segments blue; last segment brassy green, adorned with golden reflections and clothed with some tawny hairs: legs dark ferruginous, clothed with black hairs and bristles; thighs brassy black, with ferruginous tips; foot-cushions tawny: wings slightly gray; shoulders tawny; wing-ribs pitchy; veins black; tip-cross-vein forming hardly less than a right angle with the fourth longitudinal vein, curved inward along the second quarter of its length, straight from thence to the tip, joining the border a short distance above the tip of the wing; lower cross-vein straight for a very short distance from the base, then having a very slight inward curve, and afterwards a deeper outward curve; scales whitish, with pale yellow borders. Length of the body 4 lines; of the wings 8 lines.

a. Florida. Presented by E. Doubleday, Esq.

**MUSCA** Lyrcæa, n. s., mas. *Cyaneo-viridis, capite fulvo supra fusco, thorace vittis quatuor canis, scutelli disco purpureo, abdomine æneo-viridi, basi vittâ et segmentorum marginibus posticis cyaneis, palpis fulvis, apice nigris, antennis pedibusque nigris, tibiis ferrugineis, femoribus posterioribus fulvo cinctis, alis subcinereis.*

Body clothed with black hairs and bristles: head covered with a pale yellow bloom on the sides of the face, tawny and clothed with pale yellow hairs on the sides of the peristoma; a deep brown stripe fringed with bristles between the eyelets and the feelers; epistoma prominent; sides of the face beset with very few bristles at the

base: eyes purplish red; fore part flat, composed of larger facets than those elsewhere: sucker black, pitchy and clothed with tawny hairs at the tip; palpi tawny, with black tips, beset with black bristles: feelers black, shorter than the face; second joint dark ferruginous; third joint full four times the length of the second, slightly decreasing in depth from the base to the tip, which is rounded: bristle black, very much longer than the third joint: chest bluish green, tinged with purple on each side, adorned with four broad hoary stripes; breast partly covered with hoary bloom; disk of the scutcheon purple: abdomen elliptical, brassy green, a little shorter than the chest, covered with hoary bloom; a slender blue stripe on the back; its base and the hind borders of the segments also blue: legs black, clothed with black hairs and bristles; shanks dark ferruginous; foot-cushions pitchy; a broad, dark tawny band round each of the four hinder thighs: wings slightly gray; shoulders tawny; wing-ribs and veins black; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, a little curved inward for a short part of its length, straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with an almost imperceptible inward curve along half its length, and having thence to the tip a very slight outward curve; scales pale yellow, with darker borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Monte Video. Presented by C. Darwin, Esq.

*MUSCA Verena*, n. s., fem. *Purpureo-cyanea*, capite nigro supra ferrugineo, thorace vittis quatuor canis, scutello purpureo, abdomine cyaneo-viridi, basi cyaneo, macula utrinque ænea, segmentorum marginibus posticis purpureis, palpis fulvis, antennis pedibusque nigris, femoribus ferrugineo cinctis, tibiis ferrugineis, alis subcinereis.

Body clothed with black hairs and bristles: head black, covered with pale yellow bloom, tawny and clothed with yellow hairs on each side of the peristoma; a very broad ferruginous stripe fringed with bristles between the eyelets and the feelers; epistoma prominent; sides of the face fringed with very short bristles, and at the base with longer bristles: eyes dark red; fore part flat, and composed of larger facets than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers black, shorter than the face; second joint ferruginous towards the tip; third joint full thrice the length of the second, flat above, slightly convex beneath, decreasing in depth towards the tip, which is rounded; bristle black, very much longer than the third joint: chest and breast deep purplish blue; chest

adorned with four stripes of hoary reflections ; breast slightly covered with hoary bloom ; scutcheon intense purple : abdomen elliptical, bright bluish green, a little broader, but not longer than the chest, bright blue at the base, adorned with white reflections, which are most apparent on the under side ; hind borders of the segments intense purple ; a large coppery spot on each side of the fore border of the third segment : legs black, clothed with black hairs and bristles ; a broad pale ferruginous band round each thigh ; shanks dark ferruginous ; foot-cushions pitchy : wings slightly gray ; wing-ribs pitchy ; veins black ; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, a little curved inward for a short part of its length, straight from thence to the tip, joining the border a little above the tip of the wing ; lower cross-vein with an almost imperceptible inward curve along half its length, and having thence to the tip a very slight outward curve ; scales dark gray, with tawny borders. Length of the body 4 lines ; of the wings 8 lines.

a. Venezuela. From Mr. Dyson's collection.

MUSCA Bata, n. s. *Æneo-viridis, capite fulvo, scutello cyaneo, abdomine viridi basi et segmentorum marginibus posticis purpureo cyaneis, palpis fulvis, antennis ferrugineis, pedibus nigris, alis limpidis.*

Body beset with a few black hairs and bristles : head tawny, thickly clothed with beneath with pale yellow hairs ; epistoma slightly prominent ; sides of the face fringed with bristles at the base : eyes red, very large ; fore part flat, composed of very large facets, and quite distinct from the other part of the eye ; sucker pitchy, clothed with pale tawny hairs ; palpi tawny, slender, beset with black bristles : feelers pale ferruginous, much shorter than the face ; third joint full four times the length of the second, very slightly decreasing in depth from the base to the tip, which is rounded : chest green, slightly covered with white bloom, brassy along the sutures of the segments, and indistinctly striped with that colour in front ; scutcheon blue : abdomen green, obconical, shorter than the chest, blue, mixed with purple at the base, and on the hind borders of the segments : legs black, clothed with black hairs and bristles ; foot-cushions tawny : wings colourless ; wing-ribs and veins pitchy ; tip cross-vein forming hardly less than a right angle with the fourth longitudinal vein, curved inward for a short part of the length, straight from thence to the tip, joining the border a little above the tip of the wing : lower cross-vein with two slight curves, the lower inward, longer than the other, which is outward ; scales gray, with pitchy borders. *Female*.—Body more green :

feelers darker : eyes widely separated ; facets in the fore part much smaller than those of the male. Length of the body 4 lines ; of the wings 8 lines.

a. ——— ?

MUSCA Combrea, n. s., mas. *Viridis, capite fulvo, scutello purpureo, abdomine cyaneo, suturis purpureis, palpis antennisque fulvis, pedibus nigris, tibiis ferrugineis, alis limpidis.*

Body beset with a few black hairs and bristles : head pale tawny in front, thickly clothed before and beneath with pale yellow hairs ; face and epistoma pale ferruginous ; each side of the face with a single bristle at the base ; epistoma slightly prominent : eyes red, very large ; fore part flat, composed of very large facets : sucker black, clothed at the tip with tawny hairs : palpi tawny, beset with black bristles : feelers tawny, a little shorter than the face ; third joint linear, rounded at the tip, more than four times the length of the second joint ; bristle tawny, a little longer than the third joint : chest green, covered with white bloom ; scutcheon bright purple : abdomen blue, not longer than broad, much shorter than the chest, purple on the sutures of the segments : legs black, clothed with black hairs and bristles ; shanks dark ferruginous ; foot-cushions tawny : wings colourless ; wing-ribs pitchy ; veins black, pitchy towards the base ; tip cross-vein forming a slightly acute angle with the fourth longitudinal vein, curved inward for a short space, straight from thence to the tip ; lower cross-vein with two slight curves, the lower inward, the upper outward ; scales whitish, with pale tawny borders. *Female*. — More blue than the male ; feelers darker. Length of the body 4 lines ; of the wings 8 lines..

a. ——— ? From Mr. Children's collection.

MUSCA Himella, n. s., mas. *Cyaneo-viridis, purpureo varia, capite fulvo supra nigro subtus cyaneo, palpis fulvis, antennis pedibusque picetis, femoribus cyaneo-nigris, alis limpidis.*

Body beset with a few black hairs and bristles : head black, slightly covered with hoary bloom above, tawny in front, clothed with white hairs beneath, where it is blue and shining ; sides of the face beset with bristles at the base ; epistoma slightly prominent ; facials pale ferruginous : eyes dark red ; facets on the fore part a little larger than those elsewhere : sucker black, clothed at the tip with tawny hairs ; palpi dark tawny, beset with black bristles : feelers pitchy, a little shorter than the face ; second joint ferruginous above at the tip ; third joint linear, rounded at the tip, about

four times the length of the second ; bristle black, a little longer than the third joint : chest bluish green, tinged with purple on each side and on the scutcheon : abdomen obconical, green, bluish and tinged with purple at the base, a little shorter than the chest, clothed with hoary hairs towards the tip ; underside slightly adorned with white reflections : legs pitchy, clothed with black hairs and bristles ; thighs bluish black ; foot-cushions tawny : wings colourless ; wing-ribs pitchy ; veins black, pitchy at the base ; tip cross-vein forming a right angle with the fourth longitudinal vein, straight near the base, slightly curved inward from thence till near the tip, where it is again straight, joining the border a little above the tip of the wing ; lower cross-vein with two slight curves, which are nearly alike in length and depth, the lower inward, the upper outward ; scales pale yellow, with whitish borders. Length of the body 4 lines ; of the wings 8 lines.

a. ——— ? From Mr. Children's collection.

b. ——— ?

MUSCA Caruca, n. s. *Viridis, capite luteo supra albo micante, thorace albo vittato, scutello abdomineque purpureo-cyaneis, palpis fulvis, antennis pedibusque nigris, femoribus posticis basi fulvis, alis subcinereis.*

Body beset with a few black hairs and bristles : head adorned above with white lustre, bright luteous in front ; a dark ferruginous stripe fringed with bristles between the cyelets and the feelers ; epistoma slightly prominent ; sides of the face fringed with bristles on half the length : eyes pitchy ; fore part rather flat, its facets a little larger than those elsewhere : sucker black, clothed at the tip with tawny hairs ; palpi tawny, beset with black bristles : feelers black, much shorter than the face ; third joint about four times the length of the second, slightly decreasing in depth from the base to the tip, which is rounded : chest green, adorned with stripes of white lustre ; hind part and scutcheon purple, mingled with blue : abdomen obconical, as long as the chest, purplish blue, tinged with green towards the tip : legs black, clothed with black hairs and bristles ; foot-cushions tawny ; hind thighs tawny at the base : wings slightly gray ; shoulders tawny ; wing-ribs and veins black ; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, curved slightly inward for near half the length, straight from thence to the tip, joining the border a little above the tip of the wing ; lower cross-vein with an almost imperceptible inward curve along half the length, more distinctly curved outward from thence to the tip ; scales yellowish white, with pale yellow borders. Length of the body 4 lines ; of the wings 8 lines.

a. Chili. From Mr. Cuming's collection.



**MUSCA** Gamelia, n. s., mas. *Cyaneo-viridis, capite fulvo albo micante, thorace albo quadrivittato, scutello abdomineque purpureo-cyaneis, hujus basi cyaneo-viridi, palpis fulvis, antennis piceis, pedibus ferrugineis, femoribus fulvis apice tarsisque nigris, alis subcinereis basi fuscis.*

Body clothed with black hairs and bristles: head adorned with white lustre, tawny in front; epistoma slightly prominent; sides of the face fringed with bristles for near half the length: eyes pitchy; fore part rather flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers pitchy, shorter than the face; third joint nearly thrice the length of the second, slightly decreasing in depth from the base to the tip, which is rounded: chest bluish green, adorned with four broad stripes of white lustre; scutcheon purplish blue: abdomen obconical, purplish blue, bluish green towards the base, a little shorter and broader than the chest: legs ferruginous, clothed with black hairs and bristles; thighs dark tawny, with black tips; feet black; foot-cushions tawny: wings slightly gray, dark brown at the base; wing-ribs and veins black; tip cross-vein forming a very slightly obtuse angle with the fourth longitudinal vein, straight at the base, then very slightly curved inward, and straight again for more than half the length to the tip, joining the border a short distance above the tip of the wing; lower cross-vein with two curves, the first inward and almost imperceptible, the second outward and distinct; scales gray, with pale yellow borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Monte Video. Presented by C. Darwin, Esq.

**MUSCA** Polisma, n. s., mas. *Viridis, capite anticè fulvo, thorace vittis quatuor nigris, abdominis segmentorum marginibus posticis cyaneo-purpureis, antennis fulvis, pedibus nigris, alis limpidis.*

Body green, clothed with black hairs and bristles: head covered with a white bloom, bright tawny in front, clothed behind and beneath with yellow hairs; epistoma slightly prominent; sides of the face hardly beset with bristles at the base: eyes red: fore part nearly flat, its facets larger than those elsewhere; sucker black, clothed at the tip with tawny hairs: feelers tawny; third joint linear, rounded at the tip, more than four times the length of the second joint; bristle black, deeply fringed, longer than the third joint: chest adorned with four broad black stripes: abdomen obconical, a little shorter and broader than the chest, adorned on each side with white reflections; hind borders of the segments bluish purple: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings colourless; wing-ribs pitchy; veins black; tip cross-vein forming hardly more than a right angle with the

fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at a short distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; scales white, with pale yellow borders. Length of the body  $2\frac{1}{4}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. ———? Presented by the Entomological Club.

## Group II. *Lucilia*, Desv. *Essai Myod.* 452.

*MUSCA* Cæsar, Linn. *Syst. Nat.* ii. 989. *Faun. Suec.* 1828. *Gmel. Ed. Syst. Nat.* i. 5, 2838, 64. *Fabr. Sp. Ins.* ii. 437, 10. *Ent. Syst.* iv. 316, 17. *Syst. Antl.* 289, 26. *Reaum. Ins.* iv. pl. 8. f. 1. *Deg. Ins.* vi. 30, 6. *Schrank, Ins. Austr.* 923. *Faun. Boic.* iii. 2484. *Prossi, Faun. Etrusc.* 462, 1491. *Latr. Gen. Crust.* iv. 345. *Fall. Musc.* 46, 20. *Meig. Dipt.* v. 51, 1. *Zett. Ins. Lapp.* 655, 9. *Lucilia* Cæsar, Desv. *Essai Myod.* 452, 1. *Macq. Hist. Nat. Dipt.* ii. 252, 3. *Meig. Dipt.* vii. 292, 1, pl. 73, f. 45. *Zett. Dipt. Scand.* iv. 1312, 1. *Geoff. Ins.* ii. 522, 53. *Berk. Syn.* i. 164. *Harr. Ex.* 87, pl. 25, f. 23. *Stew. El.* ii. 257. *Turt.* iii. 599. *M. fulges?* *Harr. Ex.* 87, pl. 25, f. 21, var.? *M. ingredior*, *Harr. Ex.* 140, pl. 41, f. 33, var.? *M. redeo*, *Harr. Ex.* 146, pl. 41, f. 34.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. France.

d. ———? From Mr. Children's collection.

e. Lapland. Presented by the Entomological Club.

f. North America. From Mr. Children's collection.

g. Massachusetts. From Professor Sheppard's collection.

h. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*MUSCA illustris*, *Meig. Dipt.* v. 54, 7. *Lucilia illustris*, *Macq. Hist. Nat. Dipt.* ii. 255, 16. *Meig. Dipt.* vii. 292, 18. *Zett. Dipt. Scand.* iv. 1317, 6.

a. England.

b. France.

c. ———? From Mr. Children's collection.

d. Naples. Presented by M. A. Pierret.

e. Lapland. Presented by the Entomological Club.

f. Haparanda. Presented by F. Walker, Esq.

g. Alten. Presented by F. Walker, Esq.

*MUSCA sericata*, Meig. *Dipt.* v. 53, 3. Zett. *Ins. Lapp.* 655, 10. *Lucilia sericata*, Macq. *Hist. Nat. Dipt.* ii. 252, 5. Meig. *Dipt.* vii. 292, 2. Zett. *Dipt. Scand.* iv. 1314, 3, var.? *Musca cærulescens*, Meig. *Dipt.* v. 55, 10. *Lucilia cærulescens*, Macq. *Hist. Nat. Dipt.* ii. 253, 9. Meig. *Dipt.* vii. 292, 4.

a. England.

b. France.

c. ——— ?

*MUSCA cornicina*, Fabr. *Sp. Ins.* ii. 438, 11. *Ent. Syst.* iv. 317, 20. *Syst. Antl.* 289, 29. Gmel. *Ed. Syst. Nat.* i. 5, 2839, 169. Fall. *Musc.* 47, 21. Meig. *Dipt.* v. 52, 2.? Zett. *Ins. Lapp.* 655, 11. *Lucilia cornicina*, Desv. *Essai Myod.* 456, 16.? Macq. *Hist. Nat. Dipt.* ii. 254, 13.? Zett. *Dipt. Scand.* iv. 1316, 5. *Musca Cæsarion*, Hoffmansegg, Meig. *Dipt.* v. 57, 14. *Lucilia Cæsarion*, Macq. *Hist. Nat. Dipt.* ii. 255, 19. *L. viridescens*, Desv. *Essai Myod.* 458, 20. *L. aurulum*, Desv. *Essai Myod.* 458, 21.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

d. ——— ?

e. Lapland. Presented by the Entomological Club.

f. Aix-la-Chapelle. Presented by F. Walker, Esq.

*MUSCA ruficeps*, Mieg. *Dipt.* v. 55, 8. *Lucilia ruficeps*, Macq. *Hist. Nat. Dipt.* ii. 252, 6. Meig. *Dipt.* vii. 292, 3. Zett. *Dipt. Scand.* iv. 1314, 2.

a. ——— ?

*MUSCA azurea*. *Lucilia azurea*, Desv. *Essai Myod.* 455, 10.

a. ——— ?

*MUSCA indica*. *Lucilia indica*, Desv. *Essai Myod.* 453, 5.

a. ——— ?

*MUSCA germana*. *Lucilia germana*, Desv. *Essai Myod.* 455, 11.

a. Adelaide. Presented by the Entomological Club.

*MUSCA Pionia*, mas. *Cyaneo-viridis, capite argenteo, abdomine aureo-viridi, palpis nigris, antennis pedibusque piceis, alis limpidis.*

Body thickly clothed with black hairs and thinly beset with black bristles: head silvery; a pitchy stripe between the eyelets and the feelers; epistoma prominent; sides of the face fringed with

bristles at the base; sides of the peristoma projecting towards the epistoma: eyes red, nearly meeting on the crown: sucker pitchy, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers pitchy, as long as the face; third joint linear, rounded at the tip, more than four times the length of the second; bristle dark tawny, longer than the third joint: chest green, bluish on each side: abdomen obconical, golden-green, tinged with blue towards the base: legs dark pitchy, clothed with black hairs and bristles: wings colourless; wing-ribs and veins pitchy; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, almost imperceptibly inclined inward along the whole length, joining the border at a short distance above the tip of the wing; lower cross-vein with two very slight curves, the lower short and inward, the other outward and extending from the first to the tip; scales white. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Galapagos. Presented by C. Darwin, Esq.

MUSCA cuprea. *Lucilia cuprea*, Desv. *Essai Myod.* 459, 27.

a. France.

b. ——— ?

MUSCA nigriceps. *Lucilia nigriceps*, Macq. *Dipt. Exot.* ii. 2 143, 16.

a. Mexico. Presented by E. P. Coffin, Esq.

MUSCA brunnipes? *Lucilia brunnipes*? Macq. *Dipt. Ent.* ii. 2, 138, 2, *pl.* 19, *f.* 5.

a. Isle of France.

MUSCA Heræa, n. s., fem. *Viridis, capite cyaneo-viridi, abdomine æneo-viridi apice æneo, antennis pulpis pedibusque nigris, alis subcinereis.*

Body clothed with a few black hairs and bristles: head bluish green, silvery in front; a pitchy stripe between the eyelets and the feelers; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes dark red; fore part convex, its facets a little larger than those elsewhere: sucker and palpi black: feelers black, nearly as long as the face; third joint linear, rounded at the tip, more than thrice the length of the second; bristle longer than the third joint: chest green: abdomen brassy green, shorter and broader than the chest, a little longer than broad, brassy towards the tip: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs and veins black; tip cross-vein joined by an outward curve with the fourth longitudinal vein,

straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, much longer than the other, which is outward; scales dingy white, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. North America? Presented by the Entomological Club.

**MUSCA Liris**, n. s., fem. *Aureo-viridis, capite antico fulvo, thorace cyaneo-viridi vittis quatuor æneis, abdomine albo micante, antennis luteis, palpis pedibusque fulvis, tarsis nigris, alis subcinereis.*

Body bright golden-green, clothed with black hairs and bristles: head green, adorned with a tawny bloom on the crown, tawny in front, clothed beneath with tawny hairs; a pitchy stripe between the eyelets and the feelers; epistoma very prominent; sides of the face prominent and beset with bristles at the base; sides of the peristoma fringed with bristles: eyes red: sucker black, clothed at the tip with tawny hairs; palpi tawny, slender, slightly club-shaped, beset with black bristles: feelers luteous, very much shorter than the face, which forms a ridge between them; third joint linear, rounded at the tip, more than twice the length of the second joint; bristle black, downy, more than twice the length of the third joint: chest adorned with four slender brassy stripes; a bluish tinge on its disk, especially on the scutcheon, where it is mingled with purple: abdomen golden-green, a little shorter and broader than the chest, slightly adorned with white reflections; its bristles longest towards the tip: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions pale yellow: wings slightly gray, tawny at the base; wing-ribs tawny; veins pitchy, tawny at the base; tip cross-vein a little within the perpendicular to the fourth longitudinal vein, with which it is joined by an outward curve, slightly curved inward along the whole length, joining the border a little above the tip of the wing; lower cross-vein with two curves, the lower inward and very slight, separated by a straight interval from the other, which is outward and more distinct; scales whitish, with pale tawny borders. Length of the body 5 lines; of the wings 11 lines.

a. ——— ?

**MUSCA Sarsina**, fem. *Aureo-viridis, capite thoracis lateribus scutellorumque purpureis, abdomine purpureo, disco postico viridi, palpis antennis pedibusque nigris, femoribus viridi-purpureis, alis limpidis.*

Body beset with black hairs and bristles: head chiefly purple, tinged with blue and green, adorned with white lustre in front; a

pitchy stripe between the eyelets and the feelers; epistoma slightly prominent; sides of the face without bristles: eyes pitchy: sucker and palpi black, the latter beset with black bristles: feelers black, much shorter than the face; third joint flat above, slightly convex beneath, very obliquely truncated at the tip, more than twice the length of the second joint: chest golden green on the disk, blue tinged with purple on the borders; scutcheon bright purple: abdomen purple, obconical, a little broader and longer than the chest; disk of the hinder part green: legs black, clothed with black hairs and bristles; thighs purple, varied with green; foot-cushions pitchy: wings colourless; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, almost straight along the whole length, joining the border a little above the tip of the wing; lower cross-vein straight at the base and at the tip, the whole middle part being occupied by a long, slight, inward curve; scales whitish, with tawny borders. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. South Africa. Presented by Dr. A. Smith.

b. ———?

MUSCA Fucina, n. s. *Aureo-viridis, capite albo micante supra piceo, abdominis basi cyaneo-viridi apice aureo, palpis antennisque piceis, pedibus nigris, alis limpidis.*

Body clothed with black hairs and bristles: head adorned with white lustre; a pitchy stripe between the eyelets and the feelers; epistoma tawny, slightly prominent; sides of the face fringed with bristles at the base: eyes pitchy: sucker and palpi pitchy: feelers pitchy, a little shorter than the face; third joint full thrice the length of the second, slightly decreasing in depth from the base to the tip, which is rounded; bristle black, very much longer than the third joint: chest golden green, slightly tinged with white bloom: abdomen obconical, golden green, bluish green at the base, golden at the tip, a little broader and longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings colourless; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, irregularly and very slightly curved inward along the whole length, joining the border at a short distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, a little shallower than the other, which is outward; scales whitish. Length of the body 4 lines; of the wings 7 lines.

a. South Africa. Presented by Dr. A. Smith.

**MUSCA Phellia**, n. s., fem. *Cyaneo-viridis albo tecta, capite supra nigro, scutello cyaneo, palpis fulvis, antennis luteis, pedibus piceis, femoribus nigro-viridibus, alis limpidis.*

Body thinly clothed with black hairs and bristles: head thickly covered with white bloom, which is least apparent on the black stripe between the eyelets and the feelers, thinly clothed beneath with pale yellow hairs; epistoma tawny, slightly prominent; sides of the face beset with a very few bristles at the base: eyes coppery red; fore part flat, composed of larger facets than those elsewhere; sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers bright luteous, as long as the face; third joint about six times the length of the second, linear, rounded at the tip; bristle tawny, longer than the third joint, feathered with black hairs: chest bluish green, covered with white bloom, which is interrupted in front by two stripes; scutcheon blue: abdomen greenish blue, a little longer than broad, rather shorter and broader than the chest, covered at the tip and beneath with white bloom: legs pitchy; thighs blackish green; foot-cushions pale tawny: wings colourless; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, quite straight from the base to tip, joining the border a little above the tip of the wing; lower cross-vein slightly waving along its whole length, in which it forms four curves; scales white. Length of the body 4 lines; of the wings 8 lines.

a. North Bengal. From Miss Campbell's collection.

**MUSCA Racilia**, n. s. *Viridis, capite nigro subtus purpureo, thorace vittis aneis, scutello cyaneo, abdomine cyaneo-viridi, antennis piceis basi nigris, palpis pedibusque nigris, alis fusco-cinereis.*

Body black, beset with a few black hairs and bristles: head black above, purple varied with blue and green beneath; epistoma prominent; sides of the face beset with bristles at the base: eyes pitchy; fore part flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint pitchy, linear, rounded at the tip, more than thrice the length of the second joint; bristle black, longer than the third joint: chest green, adorned with indistinct brassy stripes; hind part and scutcheon blue: abdomen bluish green, obconical, a little shorter and broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings gray, dark brown at the base, and along the fore borders and on the sides of the veins; wing-ribs and veins black; tip cross-vein forming an obtuse angle with the fourth

longitudinal vein, to which it is joined by an outward curve, very slightly curved inward near the base, straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, less distinct than the other, which is outward; scales tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

**MUSCA** *Lagya*, n. s. *Purpureo-cyaneus, capite cano micante, abdominis apice viridi, palpis piceis, antennis pedibusque nigris, femoribus nigro-cyaneis, alis limpidis.*

Body beset with a few black hairs and bristles: head adorned with hoary lustre; epistoma ferruginous, prominent; sides of the face fringed with bristles for half the length from the base: eyes dark red; fore part flat, its facets a little larger than those elsewhere; sucker pitchy, clothed at the tip with tawny hairs; palpi pitchy, beset with black bristles; feelers black, nearly as long as the face; third joint linear, rounded at the tip, more than four times the length of the second joint; bristle longer than the third joint: chest bright blue, slightly tinged with purple; breast bluish purple: abdomen purplish blue, a little shorter and broader than the chest, green towards the tip: legs black, clothed with black hairs and bristles; thighs bluish black; foot-cushions pitchy: wings colourless; wing-ribs and veins tawny; veins black towards the tips; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, almost imperceptibly curved inward along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, not half the length of the other, which is outward; scales whitish, with pale yellow borders. Length of the body 4 lines; of the wings 9 lines.

a. Fayal. From Mr. Children's collection.

**MUSCA** *Cluvia*, n. s. *Cyaneo-cinerea, capite fulvo, scutello abdomineque cyaneo-purpureis, hujus lateribus viridi variis, palpis antennisque fulvis, pedibus piceis, alis sublimpidis.*

Body clothed with black hairs and beset with a few black bristles: head tawny, slightly covered with white bloom; a pitchy stripe between the eyelets and the feelers: epistoma slightly prominent; sides of the face fringed with bristles for half the length from the base: eyes red; fore part flat, composed of larger facets than those elsewhere: sucker pitchy, clothed at the tip with tawny hairs; palpi slender, pale tawny, beset with black bristles: feelers tawny, nearly as long as the face; third joint linear, more than four times



the length of the second joint, tinged with brown towards the tip, which is rounded; bristle tawny, longer than the third joint, feathered with black hairs: chest bluish gray, slightly covered with white bloom; breast tinged with purple; scutcheon bluish purple: abdomen obconical, purple mingled with blue and on each side with green: legs pitchy, clothed with black hairs and bristles; knees and foot-cushions tawny: wings nearly colourless; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, joining the border a little above the tip of the wing; lower cross-vein straight for most of its course, almost imperceptibly curved inward at the base and outward at the tip: scales gray, with pale yellow borders. Length of the body 3 lines; of the wings 6 lines.

a. West India. From Mr. Children's collection.

MUSCA Maronea, n. s., fem. *Aureo-viridis, capite nigro, palpis antennis pedibusque nigris, alis subcinereis.*

Body beset with a few black hairs and bristles: head dull black; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes dark pitchy; fore part convex, its facets small: sucker and palpi black: feelers black, nearly as long as the face; third joint linear, truncated at the tip, full thrice the length of the second joint; bristle black, longer than the third joint: chest and abdomen golden green: abdomen rather shorter and broader than the chest, its length but little exceeding its breadth: legs black, clothed with black hairs and bristles; foot-cushions pitchy; wings slightly gray; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein joined by an outward curve with the fourth longitudinal vein, straight from thence till near the tip, where it is very slightly inclined inward; lower cross-vein straight, with the exception of a very slight inward curve in the middle part of its course; scales dingy white, with pale tawny borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New Holland. Presented by J. Hunter, Esq.

MUSCA Donyssa, n. s., fem. *Viridi-cyanea, capite nigro, thoraci vittis purpureis, scutello purpureo cyaneo, abdomine viridi, antennis piccis basi nigris, palpis pedibusque nigris, alis limpidis.*

Body clothed with black hairs and bristles: head black; epistoma prominent; sides of the face fringed with bristles at the base: eyes bright red; fore part convex, its facets a little larger than those elsewhere: sucker black, clothed at the tip with tawny

hairs; palpi black, beset with black bristles: feelers black, as long as the face; third joint pitchy, slender, linear, rounded at the tip, about four times the length of the second; bristle much longer than the third joint: chest greenish blue, striped with purple; hind part blue, tinged with purple: breast green, adorned with blue and purple: abdomen bright green, hardly longer than broad, a little broader and much shorter than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings colourless; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein joined by an outward curve with the fourth longitudinal vein, straight from thence till near the tip, where it is almost imperceptibly curved inward; lower cross-vein curved inward; scales white, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New Holland. Presented by J. Hunter, Esq.

MUSCA Solaia, n. s., fem. *Viridis, capite albo micante, thorace vittis duabus cyaneis, scutello cyaneo-viridi, abdominis basi et segmentorum 2<sup>o</sup> et 3<sup>o</sup> marginibus posticis purpureo-cyaneis, palpis antennisque fulvis, pedibus piceis, tibiis ferrugineis, alis sublimpidis.*

Body beset with a few black hairs and bristles: head covered with white lustre; a pitchy stripe fringed with bristles between the eyelets and the feelers; epistoma tawny, slightly prominent; sides of the face beset with bristles for near half the length from the base: eyes red; fore part flat, composed of larger facets than those elsewhere: sucker pitchy, clothed at the tip with pale tawny hairs; palpi tawny, beset with black bristles: feelers dull tawny, as long as the face; third joint nearly linear, very slightly convex above, flat beneath, rounded at the tip, full four times the length of the second joint; bristle dark tawny, feathered with black hairs, much longer than the third joint: chest green, slightly covered with white bloom, adorned with two indistinct blue stripes; scutcheon bluish green: abdomen green, obconical, equal to the chest in length and breadth; first segment and hind borders of the two following segments dark purplish blue: legs pitchy, clothed with black hairs and bristles; shanks ferruginous; foot-cushions tawny: wings nearly colourless; wing-ribs and veins tawny; veins pitchy towards the tips; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, almost straight, but with an indistinct inward curve along the whole length, joining the border a little above the tip of the wing; lower cross-vein nearly straight, but having slight traces of the two usual curves; scales white, with pale yellow borders. Length of the body 3 lines; of the wings 6 lines.

a. ——— ?

**MUSCA** Proerna, n. s., fem. *Viridis, purpureo et cyaneo varia, palpis antennisque fulvis, pedibus nigris, alis limpidis basi subfulvis.*

Body beset with black hairs and bristles: head blue, tinged with purple, green and covered with white bloom in front; crown broad; a pitchy stripe between the eyelets and the feelers; epistoma not prominent; face pitchy, its sides beset with bristles at the base: eyes red; fore part flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, nearly as long as the face; third joint slender, linear, conical at the tip, more than four times the length of the second joint; bristle tawny, feathered with tawny hairs, longer than the third joint: chest green; cross-suture brassy; hind part and scutcheon blue, mingled with purple: abdomen obconical, broader and a little shorter than the chest, tinged with blue and purple at the tip: legs black, clothed with black hairs and bristles; foot-cushions pale yellow: wings quite colourless, pale tawny at the base; wing-ribs and veins pale tawny; tip cross-vein joined to the fourth longitudinal vein by an outward curve, very slightly curved inward from thence to the tip, joining the border a very little above the tip of the wing; lower cross-vein very slightly curved outward at the base and at the tip, its middle part occupied by a slight inward curve; scales buff. Length of the body 3 lines; of the wings 6 lines.

a. ——— ?

**MUSCA** muralis, Barnston's MSS. *Viridis, cyaneo purpureoque varia, capite nigro, palpis ferrugineis, antennis pedibusque nigris, femoribus cyaneis, alis subcinereis.*

Body beset with a few black hairs and bristles; head black; epistoma tawny, prominent; sides of the face tawny, fringed with bristles towards the base: eyes bright red; fore part rather flat, composed of larger facets than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi pale ferruginous, beset with black bristles: feelers black, as long as the face; third joint rather deep, linear, truncated at the tip, full four times the length of the second joint; bristle much longer than the third joint: chest and abdomen green, mingled with blue and purple: abdomen obconical, a little shorter but hardly broader than the chest: legs black, clothed with black hairs and bristles; thighs blue; foot-cushions tawny: wings slightly gray; wing-ribs pitchy; veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein

with two extremely slight curves, the lower inward, not more than half the length of the other, which is outward, and sometimes almost imperceptible; scales white, with yellow borders. Length of the body 4 lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*MUSCA purpurascens*, Walker, Linn. Trans. xvii. 355, 64.

a. St. Catherine, Brazil. Presented by the Entomological Club.

*MUSCA Phara*, n. s., fem. *Purpurea*, capite albo micante, palpis antennis pedibusque nigris, femoribus purpureis, alis limpidis.

Body bright purple, clothed with black hairs and bristles: head prominent in front, adorned with white lustre in front and on the pitchy stripe between the eyelets and the feelers; epistoma slightly prominent; sides of the face fringed with stout bristles along the whole breadth: eyes dark red: fore part flat, its facets much larger than those elsewhere: sucker black, clothed at the tip with a few tawny hairs; palpi black, beset with black bristles: feelers black, with a hoary tinge, a little shorter than the face; third joint linear, rounded at the tip, nearly thrice the length of the second joint; bristle very much longer than the third joint: abdomen obconical, a little broader and shorter than the chest: legs black, clothed with black hairs and bristles; thighs purple; foot-cushions tawny: wings colourless; wing-ribs pitchy; veins black; tip cross-vein forming with the fourth longitudinal vein a very obtuse angle, which is somewhat rounded, straight thence to the tip, joining the border a short distance above the tip of the wing; lower cross-vein with two slight curves, the lower inward, more distinct than the other, which is outward; scales whitish, with pale yellow borders. Length of the body 4 lines; of the wings 8 lines.

a. ———?

*MUSCA Mazaca*, n. s., fem. *Purpurea*, thoracis abdominisque discis cyaneo-viridibus, palpis antennis pedibusque nigris, femoribus cyaneo-purpureis, alis limpidis.

Body beset with a few black hairs and bristles: head purple, with a silvery covering in front; a black stripe between the eyelets and the feelers; epistoma rather prominent; sides of the face prominent at the base, fringed with bristles along the whole length: eyes pitchy; fore part slightly convex, its facets larger than those elsewhere: sucker and palpi black, the latter beset with black bristles.

cles : feelers black, much shorter than the face ; third joint hardly more than twice the length of the second, flat above, slightly convex beneath, obliquely truncated at the tip : bristle very stout, nearly twice the length of the third joint : chest and breast purple ; disk of the chest bluish green : abdomen purple, obconical, broader and a little shorter than the chest ; its disk above and beneath partly bluish green : legs black, clothed with black hairs and bristles ; thighs bluish purple : wings colourless ; wing-ribs tawny ; veins black, tawny at the base ; tip cross-vein joined by an outward curve with the fourth longitudinal vein, straight from thence to the tip, joining the border a little above the tip of the wing ; lower cross-vein straight for some space from the base, thence slightly curved inward till near the tip, where it has an equally slight, but very short outward curve ; scales white, with pale yellow borders. Length of the body 3 lines ; of the wings 7 lines.

a. Cape.

Group III. *Pyrellia*, Desv. *Essai Myod.* 462.

**MUSCA** Marsya, n. s. *Cyanea, thorace antico vittis duabus purpureis, abdominis apice fulvo, palpis antennis pedibusque nigris, alis subcinereis.*

Body bright deep blue, clothed with black hairs and bristles : head black, purple in front ; epistoma not prominent ; sides of the face fringed with bristles for two-thirds of the length : eyes dark red ; facets on the fore part larger than those elsewhere : sucker black, pitchy and clothed with a few tawny hairs at the tip ; palpi black, long, slender, subclavate, beset with black bristles : feelers black, a little shorter than the face ; third joint linear, full four times the length of the second, rounded at the tip ; bristle feathered till near the tip, nearly twice the length of the third joint : chest adorned on the fore part with two purple stripes : breast slightly covered with white bloom : abdomen obconical, not longer nor broader than the chest, purplish at the base, bright tawny at the tip, near which there is a gray tinge on each side : legs black, clothed with black hairs and bristles ; knees dark ferruginous ; foot-cushions tawny : wings slightly gray ; wing-ribs pitchy ; veins black ; tip cross-vein united with the fourth longitudinal vein by a shallow outward curve, having an almost imperceptible inward curve towards the tip, joining the border a very little above the tip of the wing ; lower cross-vein with two very slight curves, the lower inward, more distinct than the other, which is outward ; scales gray, with brown borders. Length of the body 4 lines ; of the wings 8 lines.

a. ———? From Mr. Children's collection.

MUSCA Bræsia, n. s. *Purpurea, antennis palpis pedibusque nigris, alis subcinereis.*

Body bright purple, clothed with black hairs and bristles: epistoma not prominent; sides of the face beset with bristles at the base: eyes dark red; fore part flat, its facets larger than those elsewhere: sucker and palpi black: feelers black, nearly as long as the face; third joint linear, rounded at the tip, full thrice the length of the second; bristle very much longer than the third joint: abdomen obconical, a little shorter and broader than the chest: legs black, clothed with black hairs and bristles: wings slightly gray; wing-ribs and veins black; tip cross-vein united by a rather deep curve with the fourth longitudinal vein, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, longer than the other, which is outward; scales white, with pale yellow borders. Length of the body 3 lines; of the wings 7 lines.

a. South Africa. Presented by Dr. A. Smith.

MUSCA Seplasia, n. s., mas. et fem. *Purpurea, capite nigro, thorace antico cano vittato, abdomine cyaneo, palpis antennis pedibusque nigris, alis limpidis.*

Body clothed with black hairs and bristles: head black; epistoma dark ferruginous, slightly prominent; sides of the face beset with bristles at the base: eyes red; fore part nearly flat, its facets — especially in the male — larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, rounded at the tip, full four times the length of the second joint; bristle deeply feathered, much longer than the third joint: chest purple; middle of the fore part adorned with an indistinct broad hoary stripe: abdomen obconical, blue, shorter but hardly broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings colourless; wing-ribs pitchy; veins black; tip cross-vein united with the fourth longitudinal vein by a very shallow curve, straight from thence till near the tip, where it is almost imperceptibly curved inward, joining the border a very little above the tip of the wing; lower cross-vein straight, with the exception of an extremely slight curve in the middle of its course; scales white. Length of the body 3 lines; of the wings 6 lines.

a. ——— ?

- MUSCA serena, *Meig. Dipt.* v. 59, 18. *Zett. Ins. Lapp.* 656, 3,  
 var. a. *Lucilia serena*, *Macq. Hist. Nat. Dipt.* ii. 258, 32.  
*Pyrellia serena*, *Meig. Dipt.* vii. 298, 2. *Zett. Dipt. Scand.* iv.  
 1322, 3.  
 a. England.

Group IV. *Phormia*, *Desv. Essai Myod.* 465.

- MUSCA mollis, Barnston's MSS. *Viridis, abdomine cyaneo-viridi  
 purpureo vario, pedibus nigris, alis cinereis.*

Head wanting: chest and abdomen clothed with black hairs and bristles: chest dark green: abdomen elliptical, longer than the chest, bluish green, tinged with purple: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings gray; wing-ribs and veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward, straight in the latter part of its course, joining the border a little above the tip of the wing; lower cross-vein almost straight for near half its length, curved outward from thence to the tip; scales yellow. Length of the body  $2\frac{3}{4}$  lines; of the wings  $5\frac{1}{2}$  lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

F. *Muscidæ cæruleæ*, *Desv. Essai Myod.* 429.

Group I. *Mufetia*, *Desv. Essai Myod.* 431.

Group II. *Achias*, *Bosc. Fabr. Syst. Antl.* 247.

Group III. *Calliphora*, *Desv. Essai Myod.* 433.

- MUSCA Gulo, *Fabr. Syst. Antl.* 283, 2. *Wied. Auss. Zweif.* ii. 384, 1. *Calliphora Gulo*, *Macq. Hist. Nat. Dipt.* ii. 263, 7.  
 a. ———? From Mr. Children's collection.

- MUSCA vomitoria, *Linn. Syst. Nat.* ii. 989. *Faun. Suec.* 1831. *Reaum. Ins.* iv. pl. 12, 24. *De Geer, Ins.* vi. 57, 4. *Roesel Ins.* ii. pl. 9, 10. *Geoff. Ins.* ii. 524, 59. *Schrank. Ins. Austr.* 926. *Harr. Ex.* 86, pl. 25, f. 18. *Berk. Syn.* i. 164. *Shaw, Gen. Zool.* vi. 383, pl. 107, f. *infr.* *Panz. Faun. Germ.* x. 19. *Fall. Musc.* 47, 22. *Meig. Dipt.* v. 60, 21, vii. 300, 1. *Dahlb. Skand. Ins.* 318, 217, pl. 2, f. 23. *Zett. Ins. Lapp.* 656, 14. *Dipt. Scand.* iv. 1328, 1. *M. carnivora*, *Fabr. Ent. Syst.* iv. 313, 4. *Syst. Antl.* 285, 5. *M. mortuorum*, *Fabr. Syst.*

*Anth.* 290, 32. *Volucella vomitoria*, *Schrank, Faun. Boic.* iii. 2488. *Calliphora fulvibarbis*, *Desv. Essai Myod.* i. 434. *Macq. Hist. Nat. Dipt.* ii. 262, 3.

- a. England.
- b. France.

*MUSCA erythrocephala*, *Meig. Dipt.* v. 62, 22, vii. 300, 2. *Zett. Ins. Lapp.* 656, 15. *Dipt. Scand.* iv. 1329, 2. *M. carnaria*, *Deg. Ins.* vi. 29, 4. *Herbst. Gem. Nat.* viii. 107. *M. vomitoria minimus*? *Harr. Ex.* 87, pl. 25, f. 22, 10. *Calliphora vomitoria*, *Desv. Essai Myod.* 435, 3. *Macq. Hist. Nat. Dipt.* ii. 262, 2. pl. 16, f. 6.

- a. England.
- b. France.
- c. ———? From Mr. Children's collection.
- d. Lapland. Presented by the Entomological Club.
- e. Stockholm. Presented by F. Walker, Esq.
- f. Haparanda. Presented by F. Walker, Esq.
- g. Alten. Presented by F. Walker, Esq.
- h. Aix-la-Chapelle. Presented by F. Walker, Esq.

*MUSCA Spitzbergensis.* *Calliphora Spitzbergensis*, *Desv. Essai Myod.* 435, 6.

- a. Spitzbergen.

*MUSCA quadrimaculata*, *Swed. Stock. Nya Handl.* viii. 289, 49.

- a. New Zealand. Presented by Dr. Sinclair.

*MUSCA cadaverum*, *Kirby, North Amer. Zool. Ins.* 316, 1.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*MUSCA aurulans.* *Calliphora aurulans*, *Desv. Essai Myod.* 437, 11.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*MUSCA compressa.* *Calliphora compressa*, *Desv. Essai Myod.* 438, 16.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*MUSCA vicina.* *Calliphora vicina*, *Desv. Essai Myod.* 435, 5.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.



MUSCA Lilæa, n. s., fem. *Nigra, canescens, capite ferrugineo fulvo-que vario, abdomine purpureo apice cyaneo, palpis rufo-fulvis, antennis nigris, pedibus ferrugineis, tarsis nigris, alis cinereis.*

Allied to *M. vomitoria*, but not more than half the size: body clothed with black hairs and bristles: head black, ferruginous about the base of the feelers, tawny on each side of the face; epistoma tawny, prominent; sides of the face fringed with bristles for more than half the length from the base: eyes brassy red; fore part slightly convex, its facets small: sucker black, clothed at the tip with tawny hairs; palpi reddish tawny, beset with black bristles: feelers black, as long as the face; second joint ferruginous; third joint soft, deep, linear, rounded at the tip, full four times the length of the second; bristle longer than the third joint: chest black, tinged with hoary bloom: abdomen elliptical, bright purple, tinged with hoary bloom, blue towards the tip, much broader and a little longer than the chest: legs dark ferruginous, clothed with black hairs and bristles; feet black; foot-cushions dark tawny: wings gray; wing-ribs and veins black; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at a short distance above the tip of the wing; lower cross-vein with the two usual curves, which are very indistinct; scales gray, with dingy white borders. Length of the body 3—3½ lines; of the wings 7—8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

MUSCA Hortona, n. s., fem. *Cinereo-nigra, abdomine cyaneo, apice subtus purpureo, antennis piceis, palpis pedibusque nigris, alis cinereis.*

Body black, dull, clothed with black hairs and bristles: crown flat, very broad; epistoma not prominent; sides of the face bristly at the base: eyes coppery; fore part convex, its facets very small: sucker black, clothed at the tip with tawny hairs; palpi black: feelers pitchy; second joint ferruginous; third joint decreasing in depth from the base to the tip, which is conical, full four times the length of the second; bristle black, very much longer than the third joint: chest tinged with gray: abdomen bright blue, obconical, much broader, but hardly longer than the chest; tip tinged with purple beneath: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings gray; wing-ribs and veins black; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, very slightly curved inward near the base, straight

from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward, shorter than the other, which is outward; scales gray, with dull, pale yellow borders. Length of the body 3 lines; of the wings 7 lines.

a. New Zealand. Presented by Dr. Sinclair.

*MUSCA equestris*, *Meig. Dipt.* v. 57, 13. *Lucilia equestris*, *Macq. Hist. Nat. Dipt.* ii. 253, 10.

a. England.

b. France.

c. Lapland. Presented by the Entomological Club.

*MUSCA viridescens*. *Calliphora viridescens*, *Desv. Essai Myod.* 437, 12.

a. Florida. Presented by E. Doubleday, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

*MUSCA chrysorrhæa*, *Meig. Dipt.* v. 68, 20. *Calliphora chrysorrhæa*, *Macq. Hist. Nat. Dipt.* ii. 263, 4.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

#### Group IV. *Melinda*, *Desv. Essai Myod.* 439.

*MUSCA cærulea*, *Meig. Dipt.* v. 63, 23. *M. cognata*, *Meig. Dipt.* vi. 374, vii. 300, 4. *Melinda cærulea*, *Desv. Essai Myod.* 439.

1. *Calliphora cærulea*? *Macq. Hist. Nat. Dipt.* ii. 264, 8.

*Sarcophaga cærulea*, *Zett. Dipt. Scand.* iv. 1310, 30.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*MUSCA Ilerda*, n. s., fem. *Nigra, capite aureo micante, abdomine purpureo-cyaneo, palpis fulvis, antennis piceis, pedibus nigris, alis subcinereis.*

Body beset with a few black hairs and bristles: head black, adorned with gold lustre in front; facials and epistoma pale ferruginous, the latter prominent: sides of the face fringed with bristles for more than half the length: eyes dark red; fore part slightly convex, its facets small: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers pitchy, shorter than the face; second joint ferruginous above; third joint nearly four times the length of the second, deep, nearly linear, truncated at the tip; bristle much more than twice the length of the third joint,

feathered for three-fourths of the length: chest black: abdomen blue, nearly elliptical, tinged with purple, broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs pitchy; veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inwards along the whole length, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales gray, with yellowish white borders. Length of the body 3 lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

MUSCA Phauda, n. s., mas. *Cyanea, capite fulvo, thoraci fasciis aeneis viridibusque, abdomine cyaneo-viridi apice purpureo, antennis piceis, basi palpisque fulvis, pedibus ferrugineis, femoribus cinereo-piceis, alis subcinereis.*

Body clothed with black hairs and bristles: head yellowish brown above, bright tawny on the crown, clothed beneath with bright yellow hairs; epistoma slightly prominent; sides of the face fringed with bristles on nearly the whole length: eyes dark red; fore part nearly flat, its facets larger than those elsewhere: sucker pitchy, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, shorter than the face; second joint armed with a stout bristle; third joint pitchy, tawny at the base, decreasing in depth from the base to the tip, which is rounded, near four times the length of the second joint; bristle rather less than twice the length of the third joint, very stout for less than half the length from the base: chest blue, covered with white bloom, adorned with bronze and green bands: abdomen olliptical, shorter than the chest, bluish green, tinged with purple towards the tip: legs dark ferruginous, clothed with black hairs and bristles; thighs pitchy, tinged with gray; foot-cushions tawny: wings slightly gray; wing-ribs pitchy; veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, slightly curved inward for more than half the length, straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two deep curves, the lower inward, the upper outward; scales gray, with pale borders. Length of the body 3 lines; of the wings 6 lines.

a. Galapagos. Presented by C. Darwin, Esq.

**MUSCA** *Icela*, n. s., fem. *Nigra, thorace vittis cinereis, abdomine cyaneo-purpureo, palpis fulvis, antennis nigris, ferrugineo cinctis, pedibus nigris, alis cinereis.*

Body clothed with black hairs and bristles: head covered with hoary bloom, adorned above with a tawny covering on each side of the crown; epistoma slightly prominent; sides of the face beset with bristles for one-third of the length: eyes dark red; facets on the fore part rather larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers black, as long as the face; tip of the second joint and base of the third joint ferruginous; third joint linear, nearly truncated at the tip, about four times the length of the second; bristle much longer than the third joint: chest black, adorned with gray stripes: breast tinged with gray: abdomen elliptical, brilliant purple, mingled with blue, a little shorter and broader than the chest: legs black, clothed with black hairs and bristles; thighs tinged with gray; knees ferruginous; foot-cushions pitchy: wings gray; wing-ribs and veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, having a short and extremely shallow inward curve near the base, straight from thence to the tip, joining the border a little above the tip of the wing; lower cross-vein with two slight curves, the lower inward, the other outward; scales gray, with dingy white borders. Length of the body  $2\frac{1}{4}$  lines; of the wings 6 lines.

a. New Zealand. Presented by Dr. Sinclair.

**MUSCA** *Thuscia*, n. s., fem. *Cinereo-nigra, capite antico fulvo, abdomine purpureo albo-micante, palpis fulvis, antennis nigris fulvo-cinctis, pedibus nigris, alis cinereis.*

Body clothed with black hairs and bristles: head ferruginous on the crown, tawny in front, black with a hoary tinge behind and beneath; epistoma prominent; sides of the face fringed with bristles on nearly the whole length: eyes red; fore part slightly convex, its facets small: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers black, nearly as long as the face; tip of the second joint and base of the third joint tawny; third joint deep, soft, nearly linear, rounded at the tip, more than four times the length of the second joint: chest and breast black, tinged with gray: abdomen elliptical, purple with white reflections, much broader but not longer than the chest: legs black, clothed with black hairs and bristles; thighs tinged with gray; knees ferruginous; foot-cushions pitchy: wings gray; wing-ribs pitchy; veins black; tip cross-vein forming a very slightly acute angle

with the fourth longitudinal vein, much curved inward near the base, straight towards the tip, joining the border a little above the tip of the wing; lower cross-vein with two slight curves, the lower inward, shorter than the other, which is outward; scales very dark gray, with dingy white borders. Length of the body 5 lines; of the wings 10 lines.

a. Fayal. From. Mr. Children's collection.

MUSCA Metilia, n. s., mas. *Cinereo-nigra, scutello cyaneo, abdomine cyaneo-nigro, palpis fulvis, antennis pedibusque nigris, alis limpidis basi subfuscis.*

Body clothed with black hairs and bristles: head black, ferruginous on each side of the epistoma, which is tawny and slightly prominent; sides of the face fringed with bristles at the base: eyes red; fore part nearly flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers black, as long as the face; third joint linear, truncated at the tip, full four times the length of the second; chest and breast black, tinged with gray: scutcheon dark blue: abdomen elliptical, bluish black, a little broader but not longer than the chest: legs black, clothed with black hairs and bristles: wings colourless, brownish at the base; wing-ribs and veins dark tawny; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward, joining the border a little above the tip of the wing; lower cross-vein with a very slight inward curve, almost straight from thence to the tip; scales yellowish white, with yellow borders. Length of the body 4 lines; of the wings 8 lines.

a. Nepaul. From the Hardwicke bequest.

MUSCA Pandia, n. s., fem. *Nigro-cinerea, thorace nigro-quadrivittato, abdomine albo-viridi, antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles: head very prominent about the base of the feelers, adorned in front with tawny lustre, and along the outer borders of the eyes with hoary lustre, which communicates with the sides of the face; a broad pitchy furrowed stripe between the cyelets and the feelers; epistoma not prominent; sides of the face ferruginous, fringed with bristles at the base: eyes red; fore part slightly convex, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black(?): feelers black, shorter than the face; third joint flat above, slightly convex beneath, rounded at the tip, less than twice

the length of the second joint: bristle very slender, stout at the base, feathered for more than half the length, more than twice the length of the third joint: chest and breast tinged with gray: chest adorned with four slender indistinct black stripes: abdomen green, tinged with white bloom, a little broader but not longer than the chest; first segment dull black: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings gray; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein straight, forming a very obtuse angle with the fourth longitudinal vein, joining the border a very little above the tip of the wing; lower cross-vein with two distinct curves, the lower inward, the other outward; scales white, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. France?

*MUSCA Unxia*, n. s., mas. *Nigro-cinerea*, *capite antico ferrugineo*, *abdomine cyaneo-viridi*, *palpis fulvis*, *antennis ferrugineis*, *pedibus nigris*, *alis subcinereis*.

Body black, clothed with black hairs and bristles: head ferruginous and covered with white bloom in front; epistoma not prominent; sides of the face fringed with bristles for one-third of the length: eyes red; fore part convex, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny, beset with black bristles: feelers ferruginous, shorter than the face; third joint more or less pitchy, flat above, slightly convex beneath, truncated at the tip, full twice the length of the second joint; bristle ferruginous, feathered with long hairs, about twice the length of the third joint: chest and breast dull black, slightly tinged with gray: abdomen obconical, bluish green, slightly tinged with white, not longer nor broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny; wings slightly gray; wing-ribs pitchy; veins black; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, joining the border a little above the tip of the wing; lower cross-vein with two distinct curves, the lower inward, the upper outward; scales slightly gray, with tawny borders. Length of the body 2 lines; of the wings 4 lines.

Var.  $\beta$ . Tip cross-vein straight.

a. Italy. From Dr. Leach's collection.

b. France?

**B. Muscidæ Armentariæ, Desv. Essai Myod. 390.**

Group I. *Plaxemya*, Desv. *Essai Myod.* 392.

Group II. *Byomya*, Desv. *Essai Myod.* 392.

Group III. *Sphora*, Desv. *Essai Myod.* 394.

Group IV. *Musca*, Desv. *Essai Myod.* 394.\*

*MUSCA corvina*, Fabr. *Sp. Ins.* ii. 440, 21. *Fabr. Ent. Syst.* iv. 320, 31. *Syst. Antl.* 294, 49. *Gmel. Ed. Syst. Nat.* i. 5, 2841, 180. *Fall. Musc.* 48, 25. *Meig. Dipt.* v. 69, 32, vii. 300, 17. *Desv. Essai Myod.* 396, 4. *Macq. Hist. Nat. Dipt.* ii. 266, 4, pl. 16, f. 17. *Zett. Ins. Lapp.* 659, 23. *Dipt. Scand.* iv. 1336, 8. *M. ludifica*, Fabr. *Ent. Syst.* iv. 323, 46. *Syst. Antl.* 298, 73. *Panz. Faun. Germ.* 105, 13. *M. autumnalis*, Deg. *Ins.* vi. 41, 12. *M. nigripes*, *Panz. Faun. Germ.* lx. 13. *M. Tau*, *Schrank, Ins. Austr.* 458, 931.

a. England.

b. France.

c. ———? From Mr. Children's collection.

d. Aix-la-Chapelle. Presented by F. Walker, Esq.

e. Malta.

f. Nova Scotia. From Lieut. Redman's collection.

*MUSCA vitripennis* Meig. *Dipt.* v. 73, 38, pl. 43, f. 34.

a. England.

*MUSCA domestica*, Linn. *Syst. Nat.* ii. 990. *Faun. Suec.* 1833. *Gmel. Ed. Syst. Nat.* i. 5, 2841, 69. *Fabr. Sp. Ins.* ii. 436, 7. *Ent. Syst.* iv. 315, 11. *Syst. Antl.* 287, 18. *Deg. Ins.* vi. 35, 10, pl. 4, f. 5—10. *Geoff. Ins.* ii. 528, 66. *Schell. Gen. Mouch.* pl. 1. *Schrank, Ins. Austr.* 928. *Faun. Boic.* iii. 2490. *Harr. Ex.* 142, pl. 41, f. 44. *Berk. Syn.* i. 165. *Stew, El.* ii. 258. *Turt.* iii. 598. *Fall. Musc.* 49, 26. *Meig. Dipt.* v. 67, 31. *Desv. Essai Myod.* 398, 10. *Dahlb. Scand. Ins.* 319, 218. *Macq. Hist. Nat. Dipt.* ii. 1335, 7. *Zett. Ins. Lapp.* 659, 24. *Dipt. Scand.* iv. 1335, 7.

a. England.

b. France.

c. ———? From Mr. Children's collection.

d. Lapland. Presented by the Entomological Club.

*MUSCA australis*, Macq. *Voy. de Léguillon, Dipt. Exot.* ii. 3, 152, 6, pl. 20, f. 10.

a. New Holland. Presented by the Haslar Hospital.

*MUSCA basilaris*, Macq. *Dipt. Exot.* ii. 3, 153, 8.

a. Jamaica. From Mr. Children's collection.

*MUSCA Alpessa*, n. s., mas. *Nigra, capite albo micante, thoraci vittis tribus latis canis, abdomine fulvo flavo-micante basi vittaque nigris, antennis palpis pedibusque nigris, alis limpidis.*

Body clothed with black hairs and bristles: head black, adorned with white lustre; epistoma prominent; sides of the face fringed with bristles along the whole length: eyes red, meeting on the crown; fore part flat, its facets much larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, slender, long, curved, beset with black bristles: feelers black, shorter than the face; third joint slightly decreasing in depth from the base to the tip, which is rounded, about four times the length of the second joint; bristle twice the length of the third joint: chest black, adorned with three broad hoary stripes: abdomen obconical, pale tawny, a little shorter but hardly broader than the chest, adorned with pale yellow reflections, black at the base, and having a black stripe which tapers from the base to the tip: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings colourless; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, joining the border a short distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales pale tawny. Length of the body 3 lines; of the wings 7 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*MUSCA Taitensis*, Macq. *Dipt. Exot.* ii. 3, 153, 7, pl. 20, f. 8.

a. New Zealand. Presented by Dr. Sinclair.

*MUSCA Osiris*? Wied. *Auss. Zweif.* ii. 420, 62.

a. Egypt. Presented by Sir Gardner Wilkinson.

*MUSCA antiquissima*, n. s., fem. *Cana, capite flavo micante, abdominis lateribus basi fulvis, palpis antennis pedibusque nigris, alis limpidis basi subfulvis.*

Body hoary, clothed with black hairs and bristles: head adorned with pale yellow lustre along the borders of the eyes: epi-



stoma slightly prominent; sides of the face fringed with short bristles for half the length from the base: eyes pitchy; fore part flat, its facets rather larger than those elsewhere: sucker and palpi black, the latter beset with black bristles: feelers black, a little shorter than the face; third joint linear, slender, rounded at the tip, full thrice the length of the second joint; bristle about twice the length of the third joint: abdomen obconical, a little shorter, but not broader than the chest, adorned with a large tawny spot on each side of the base: legs black, clothed with black hairs and bristles; foot-cushions pale tawny: wings colourless, slightly tawny at the base; wing-ribs tawny; veins black, tawny at the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, slightly curved inward along the whole length, joining the border a little above the tip of the wing; lower cross-vein almost straight; scales pale yellow; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. New Holland.

*MUSCA vetustissima*, n. s., fem. *Cana, capite albo micante, thoraci vittis duabus latis nigris, abdomine cano-cinereo, palpis nigris, antennis piceis basi nigris, pedibus piceis, alis limpidis basi albis.*

Body hoary, clothed with black hairs and bristles: head adorned with white lustre; a black stripe between the eyelets and the feelers; epistoma not prominent; sides of the face feathered with bristles at the base: eyes red; fore part flat, its facets a little larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint pitchy, linear, rounded at the tip, about thrice the length of the second joint; bristle pitchy, black at the tip, about twice the length of the third joint: chest adorned with two broad black stripes: abdomen obconical, gray, with hoary reflections, a little broader, but not longer than the chest: legs pitchy, clothed with black hairs and bristles; foot-cushions tawny: wings colourless, white at the base; wing-ribs and veins pale tawny; veins darker towards the tips; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly inclined inward along the whole length, joining the border a little above the tip of the wing; lower cross-vein nearly straight; scales white; poisers pale yellow. Length of the body 2 lines; of the wings 4 lines.

a. New Holland. Presented by the Entomological Club.

*MUSCA primitiva*, n. s., fem. *Nigra, canescens, capite albo micante, thoraci vittis duabus latis cinereis, abdomine fulvo micante subtessellato, palpis antennis pedibusque nigris, alis limpidis.*

Body black, with a hoary covering, clothed with black hairs and bristles: head covered with pale yellow bloom, adorned with white lustre in front; a broad hoary stripe fringed with short bristles between the eyelets and the feelers; epistoma not prominent; sides of the face beset with bristles at the base: eyes bright red; fore part nearly flat, its facets very small: sucker and palpi black: feelers black, nearly as long as the face; third joint linear, slender, somewhat truncated at the tip, full four times the length of the second joint; bristle thick near the base, very much longer than the third joint: chest adorned with two broad gray stripes: breast covered with pale yellow bloom: abdomen nearly oval, adorned with pale tawny reflections, slightly tessellated, a little shorter and broader than the chest; under side hoary: legs black, clothed with black hairs and bristles: wings colourless: wing-ribs yellow; veins black, yellow towards the base; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, slightly curved inward along the whole length, joining the border a little above the tip of the wing; lower cross-vein straight for half the length, very slightly curved outward from thence to the tip; scales white, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. China. Presented by G. T. Lay, Esq.

*MUSCA prisca*, n. s., fem. *Nigra, palpis antennis pedibusque nigris, alis limpidis.*

Body black, clothed with black hairs and bristles: eyes red; fore part convex; all the facets very small: sucker and palpi black: feelers black: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings colourless; wing-ribs and veins yellow; veins pitchy towards the tips; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, joining the border at a short distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the upper outward; scales white, with pale yellow borders; poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. New Holland. Presented by the Haslar Hospital.

**MUSCA** Moneta, n. s., fem. *Nigra, capite pectore thoracisque vittis quatuor cinereis, abdomine nigro tessellato, palpis antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles: head gray; a black stripe fringed with bristles between the eyelets and the feelers; epistoma slightly prominent; sides of the face fringed with bristles along half the length from the base: eyes dark red, downy; fore part slightly convex, its facets very small: sucker black, pitchy and clothed with tawny hairs at the tip; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint full twice the length of the second, flat above, slightly convex beneath, obliquely truncated at the tip; bristle black, more than twice the length of the third joint, stout near the base, feathered with short hairs for almost half the length: chest adorned with four gray stripes; scutcheon bordered with gray: breast gray: abdomen nearly elliptical, tessellated with gray, a little broader and longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings gray; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming with the fourth longitudinal vein a slightly obtuse angle, which is far from the border of the wing, slightly curved inward at the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein nearly straight, but slightly waving; scales white, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. France?

b. Lapland? Presented by the Entomological Club.

**MUSCA** Doclea, n. s., fem. *Nigro-cinerea, capite ferrugineo, abdomine viridi basi nigro, antennis ferrugineis, palpis pedibusque fulvis, alis cinereis basi costaque fulvis.*

Body black, clothed with black hairs and bristles: head ferruginous, dark brown on the crown, with a tawny bloom in front; a dark ferruginous stripe fringed with bristles between the feelers and the eyelets; epistoma not prominent; sides of the face fringed with bristles at the base: sucker black, clothed with tawny hairs at the tip; palpi tawny, beset with black bristles: feelers ferruginous, much shorter than the face; third joint covered with tawny bloom, nearly linear, rounded at the tip, full twice the length of the second; bristle black, very much longer than the third joint: chest and breast dark gray: abdomen dark green, obconical, a little broader and shorter than the chest; first and second segments dull black: legs tawny, clothed with black hairs and bristles; feet dark tawny;

claws black : wings gray, tawny at the base and along the fore borders : wing-ribs and veins tawny ; veins pitchy towards the tips ; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, very slightly curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing ; lower cross-vein with two distinct curves, the lower inward, the other outward ; scales tawny. Length of the body  $2\frac{1}{2}$  lines ; of the wings  $5\frac{1}{2}$  lines.

a. ——— ?

MUSCA Calleva, n. s., fem. *Cinerea, capite antico æneo, thorace vittis quatuor nigris, abdomine fulvo micante subtessellato, antennis piceis basi nigris, palpis pedibusque nigris, alis limpidis.*

Body gray, beset with black hairs and bristles : head black on the crown, brassy in front ; epistoma not prominent ; sides of the face fringed with bristles along half the length : eyes pitchy ; fore part slightly convex, its facets hardly larger than those elsewhere : sucker black, clothed at the tip with tawny hairs ; palpi black, beset with black bristles : feelers black, shorter than the face ; third joint pitchy, nearly linear, rather deep, rounded at the tip, about thrice the length of the third joint ; bristle very slender, thick at the base, very much longer than the third joint : chest adorned with four black stripes : abdomen obconical, a little shorter and broader than the chest, adorned with tawny lustre, slightly tessellated : legs black, clothed with black hairs and bristles ; foot-cushions tawny : wings colourless ; wing-ribs tawny ; veins black ; tip cross-vein forming an obtuse angle with the fourth longitudinal vein, very slightly curved inward along the whole length, joining the border a little above the tip of the wing ; lower cross-vein almost straight, but having three extremely slight inward curves ; middle curve with a knob at each end ; scales white, with pale yellow borders. In the fly described there is an outward stump near the tip of the lower cross-vein of the right wing. Length of the body  $2\frac{1}{2}$  lines ; of the wings 5 lines.

a. Interior of South Africa. Presented by the Earl of Derby.

D. Muscidæ Tomentosæ, *Desv. Essai Myod.* 410.

Group I. Stomina, *Desv. Essai Myod.* 411.

Group II. Pollenia, *Desv. Essai Myod.* 412.

*MUSCA rudis*, *Fabr. Syst. Antl.* 287, 16. *Fall. Musc.* 48, 24. *Meig. Dipt.* v. 66, 28, vii. 301, 38. *Zett. Ins. Lapp.* 659, 22. *Dipt. Scand* iv. 1339, 11. *Pollenia rudis*, *Desv. Essai Myod.* 414, 4. *Macq. Hist. Nat. Dipt.* ii. 269, 1, pl. 16, f. 18.

a. England.

b. France.

*MUSCA Læmica*, *White's MSS.*, mas. *Fulva*, capite supra nigro, thoracis disco cinereo vittis sex fuscis, abdomine viridi aureo tessellato, antennis nigris basi ferrugineis, palpis pedibusque fulvis, tarsis nigris, alis limpidis basi fulvis.

Body tawny, clothed with black hairs and bristles: head black above, pale tawny in front, thickly clothed beneath with golden hairs; a pitchy stripe widening from the eyelets to the feelers; facials obliquely striated; epistoma prominent; sides of the face fringed with bristles along half the length: eyes brassy red; fore part flat, composed of much larger facets than those elsewhere: sucker black, pitchy and clothed with pale tawny hairs at the tip; palpi bright tawny, slender, slightly clavate, beset with black bristles: feelers black, a little shorter than the face; first and second joints ferruginous; third joint linear, rounded at the tip, full four times the length of the second; bristle very much longer than the third joint: disk of the chest gray, adorned with six indistinct dark brown stripes; breast thinly clothed with golden hairs: abdomen dark green, obconical, a little shorter and broader than the chest, tessellated with golden reflections, thickly clothed at the base and beneath with bright golden hairs: legs pale tawny, clothed with black hairs and bristles; feet black; foot-cushions dark tawny: wings colourless, tawny at the base; wing-ribs ferruginous; veins black, ferruginous towards the base; tip cross-vein forming hardly more than a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two curves, the lower inward, the other outward and very much deeper than the first; scales pale gray; poisers tawny. Length of the body  $4\frac{1}{2}$ —5 lines; of the wings 9—10 lines.

a. New Zealand. Presented by Dr. Sinclair.

b. New Holland. Presented by the Earl of Derby.

c. South Sea Isles. Presented by Capt. Sir E. Home.

d. Swan River. Presented by Sir J. Richardson.

e. Swan River. From Mr. Turner's collection.

f. West Australia. From Mr. Clifton's collection.

**MUSCA dorsalis**, n. s., mas. et fem. *Fulva, capite supra ferrugineo ad ocellos piceo, thoracis abdominisque discis cyaneo-cinereis, palpis antennis pedibusque fulvis, tarsis nigris, alis subcinereis basi fulvis.*

Body tawny: head ferruginous above, pitchy about the eyelets, clothed beneath with golden hairs; epistoma prominent; sides of the face fringed with hairs along two-thirds of the length: eyes red; fore part flat, its facets much larger than those elsewhere: sucker black; palpi tawny, beset with black bristles: feelers tawny, nearly as long as the face; third joint linear, pitchy, rounded at the tip, tawny beneath and at the base, about six times the length of the second; bristle pitchy, longer than the third joint, feathered to the tip with long hairs: chest bluish gray: scutcheon blue: back of the abdomen adorned with a broad bluish stripe: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions tawny: wings slightly gray, tawny at the base; tip cross-vein with two distinct curves, the upper outward, deeper than the other, which is inward; scales pale tawny; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. New Holland. Presented by J. Hunter, Esq.

b. New Holland.

### Group III. *Nitellia*, Desv. *Essai Myod.* 417.

**MUSCA vespillo**, *Fabr. Ent. Syst.* iv. 318, 26. *Syst. Antl.* 292, 39. *Meig. Dipt.* v. 65, 27, vi. 374. *Fall. Act. Holm.* 1816, 247, 23. *Musc.* 47, 23. *Zett. Ins. Lapp.* 658, 20. Var.  $\alpha$  et  $\beta$ . *M. sepulchralis*, *Meig. Dipt.* v. 71, 34, vii. 300, 10. *Volucella corvina*, *Schrank, Faun. Boic.* iii. 2496. *Musca recurvo*? *Harr. Ex.* 85, pl. 25, f. 17. *Nitellia vespillo*, *Desv. Essai Myod.* 417, 1. *Sarcophaga vespillo*, *Zett. Dipt. Scand.* iv. 1307, 28.

a. England.

b. France.

c. ———? From Mr. Children's collection.

d. Ukraine. Presented by Dr. Dowler.

e. Nova Scotia. From Lieut. Redman's collection.

f. Nova Scotia.

g. ———? Presented by the Entomological Club.

Group IV. Beria, *Desv. Essai Myod.* 418.

## Group V. Rhinophora.

- MUSCA atramentaria*, *Meig. Dipt.* v. 65, 26, vii. 301, 28. *Zett. Ins. Lapp.* 658, 21. *Dipt. Scand.* iv. 1337, 9. *Pollenia atramentaria*, *Macq. Hist. Nat. Dipt.* ii. 272, 13.  
*a. Aix-la-Chapelle.* Presented by F. Walker, Esq.

C. Muscidæ Vagantes, *Desv. Essai Myod.* 400.Group I. Graphomya, *Desv. Essai Myod.* 403.

- MUSCA maculata*, *Linn. Syst. Nat. ed.* xii. 2, 990, 70. *Fabr. Ent. Syst.* iv. 314, 8. *Syst. Antl.* 287, 14. *Gmel. Ed. Syst. Nat.* i. 5, 2841, 70. *Deg. Ins.* vi. 84, 13, pl. 3, f. 22. *Harr. Ex.* 140, pl. 41, f. 38? *Turt.* iii. 598. *Don. Brit. Ins.* xiii. 25, pl. 445, f. 1. *Panz. Faun. Germ.* 44, 22. *Fall. Musc.* 49, 27. *Meig. Dipt.* v. 78, 48. *Zett. Ins. Lapp.* 659, 25. *M. vulpina*, *Fabr. Sp. Ins.* ii. 439, 20. *Ent. Syst.* iv. 319, 29. *Syst. Antl.* 292, 43. *Gmel. Ed. Syst. Nat.* i. 5, 2841, 179, mas. *M. compunctus*, *Harr. Ex.* 113, pl. 33, f. 24, mas. *Graphomya maculata*, *Desv. Essai Myod.* 403, 1. *Cyrtoneura maculata*, *Macq. Hist. Nat. Dipt.* ii. 275, 1, pl. 16, f. 20. *Meig. Dipt.* vii. 309, 15. *Zett. Dipt. Scand.* iv. 1355, 10.  
*a. England.*  
*b. France.*  
*c. ——— ? From Mr. Children's collection.*

*MUSCA Idessa*, n. s., fem. *Nigra, albo micans, thorace vittis quatuor cyaneo-canis, abdomine maculis nigris quadrivittato, palpis nigris, pedibus piceis, tarsis nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with white lustre; a broad black stripe on the crown; epistoma hardly prominent; sides of the face beset with short bristles for half the length from the base: eyes red; fore part flat, its facets a little larger than those elsewhere: sucker black, clothed at the tip with a few tawny hairs: palpi black, beset with black bristles: feelers wanting: chest adorned with four broad, regular, bluish hoary stripes; scutcheon whitish, with a large black spot in the disk: abdomen covered with white reflections, adorned with four rows of large irregular black spots: legs dark pitchy; thighs covered with gray bloom; feet black: wings slightly gray; wing-ribs pitchy;

veins black, pitchy at the base; tip cross-vein joined with the fourth longitudinal vein by a rather deep outward curve, straight from thence till near the tip, where it is slightly curved inward, joining the border just below the tip of the wing; lower cross-vein curved inward along its whole length, deeply so near the base; scales white, with pale tawny borders; poisers tawny, with yellow knobs. Length of the body 4 lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*MUSCA Eustolia*, n. s., mas. *Aurea, capite flavo, thorace vittis quinque nigro-fuscis, abdomine fulvo, segmentorum marginibus posticis fuscis, antennis piceis, palpis pedibusque fuscis, tarsis nigris, alis subfulvis marginibus posticis limpidis.*

Body clothed with black hairs and bristles: head yellow; a narrow, dark brown stripe fringed with bristles between the eyelets and the feelers; epistoma prominent; sides of the face fringed with bristles along one-third of the length: eyes pitchy, nearly meeting on the crown; fore part almost flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi tawny: feelers pitchy, nearly as long as the face; third joint linear, slightly rounded at the tip, full thrice the length of the second joint; bristle tawny, black towards the tip, feathered with black hairs, much longer than the third joint: chest gold-colour, adorned with five regular, broad, blackish brown stripes; the middle one and the outer pair extending over part of the scutcheon: abdomen tawny, obconical, a little shorter, but hardly broader than the chest; hind borders of the segments pale brown: legs tawny, clothed with black hairs and bristles; shanks darker than the thighs; feet black; foot-cushions pale yellow: wings slightly tawny, colourless along the hind borders; wing-ribs tawny; veins black, pitchy towards the base; tip cross-vein joined by a very shallow outward curve with the fourth longitudinal vein, straight from thence till near the tip, where it is very slightly inclined inward; lower cross-vein with two very slight and short outward curves, one at the base, the other at the tip, the whole middle part being occupied by a long and shallow inward curve; scales pale tawny. Length of the body 3 lines; of the wings 7 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.



*MUSCA mediatubunda*, *Fabr. Sp. Ins.* ii. 444, 46. *Ent. Syst.* iv. 322, 43. *Syst. Antl.* 297, 68. *Gmel. Ed. Syst. Nat.* i. 5, 2845, 203. *Panz. Faun. Germ.* 44, 23. *Fall. Musc.* 50, 28. *Meig. Dipt.* v. 79, 49. *Zett. Ins. Lapp.* 660, 26. *M. Serpo*, *Harr. Ex.* 144, pl. 42, f. 54. *Cyrtoneura mediatubunda*, *Macq. Hist. Nat. Dipt.* ii. 275, 2. *Meig. Dipt.* vii. 309, 16. *Zett. Dipt. Scand.* iv. 1357, 11.

a. England.

b. ———? Presented by the Entomological Club.

c. Aix-la-Chapelle. Presented by F. Walker, Esq.

d. Alten. Presented by F. Walker, Esq.

e. Nova Scotia. From Lieut. Redman's collection.

## Group II. *Morellia*, *Desv. Essai Myod.* 405.

*MUSCA hortorum*, *Fall. Act. Holm.* 1816, 252, 33. *Musc.* 52, 33. *Meig. Dipt.* v. 3, 39, pl. 43, f. 33. *Zett. Ins. Lapp.* 560, 30. *M. importuna*, *Hal. Ent. Mag.* iv. 149. *Anthomyia hortorum*, *Wied. Zool. Mag.* i. 1, 83, 35. *Morellia hortorum*, *Haliday, Ann. Nat. Hist.* 1839, 185. *Cytoneura hortorum*, *Macq. Hist. Nat. Dipt.* ii. 276, 5. *Meig. Dipt.* vii. 309, 1. *Zett. Dipt. Scand.* iv. 1346, 1.

a. England.

b. France.

c. ———? Presented by the Entomological Club.

d. Alten. Presented by F. Walker, Esq.

*MUSCA Nora*, n. s., mas. *Nigra*, *thorace vittis quinque cinereis, abdomine flavo-fusco micante subtus cinereo, antennis palpis pedibusque nigris, alis subcinereis.*

Body black, thickly clothed with black hairs and bristles: head adorned in front with silky white lustre; epistoma ferruginous, not prominent; sides of the face fringed with bristles at the base; a double row of bristles on the crown: eyes red; fore part flat, its facets larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs towards the tip; palpi black, curved, beset with black bristles: feelers black, shorter than the face; third joint linear, nearly truncated at the tip, about four times the length of the second; bristle stout towards the base, nearly twice the length of the third joint: chest adorned with five broad, indistinct, gray stripes; breast tinged with gray: abdomen elliptical, as long as the chest, adorned with yellowish brown reflections, grayish beneath: legs black, clothed with black hairs and bristles; foot-cushions

pale yellow: wings slightly gray; wing-ribs pitchy; veins black; tip cross-vein united with the fourth longitudinal vein by an extremely shallow curve, and having an almost imperceptible inward curve from thence to the tip, joining the border just below the tip of the wing; lower cross-vein with two very slight curves, the lower inward, more distinct than the other, which is outward; scales dingy white, with yellow borders; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Lapland. Presented by the Entomological Club.

b. France.

*MUSCA tempestiva*, Fall. *Musc.* 53, 36. *Meig. Dipt.* v. 76, 44.

*Zett. Ins. Lapp.* 661, 31. *M. nana*? *Meig. Dipt.* vi. 375, 51.

*Cyrtoneura tempestiva*, *Meig. Dipt.* vii. 309, 6. *Zett. Dipt.*

*Scand.* iv. 1349, 4. *C. nana*? *Meig. Dipt.* vii. 309, 8.

a. England.

b. ———? From Mr. Children's collection.

*MUSCA Aluta*, n. s., fem. *Nigro-fusca, thorace vittis quinque cine-  
reis, abdomine flavo-fusco tecto, antennis palpis pedibusque ni-  
gris, alis subcinereis.*

Body black, clothed with black hairs and bristles: head covered with dull tawny bloom; crown broad; epistoma slightly prominent; sides of the face beset with bristles at the base: eyes red; fore part slightly convex, its facets small: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint linear, truncated at the tip, full four times the length of the second joint; bristle longer than the third joint: chest dark brown, adorned with five indistinct hoary stripes: breast tinged with gray: abdomen elliptical, a little broader but not longer than the chest, adorned with a yellowish brown covering: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs tawny; veins black, pitchy towards the base; tip cross-vein united to the fourth longitudinal vein by a very shallow outward curve, straight from thence till near the tip, where it is very slightly inclined inward, joining the border just below the tip of the wing; lower cross-vein with a rather deep outward curve in the middle, and having a short and slight inward curve at each end; scales white, with pale tawny borders; poisers tawny. Length of the body  $2\frac{1}{2}$ —3 lines; of the wings 5—6 lines.

a. Lapland?

b. France?

In one wing of an insect of this species the lower cross-vein sends forth a stump into the disk.

**MUSCA** Calisia, n. s. *Cinerea, thorace vittis quatuor nigris, abdomine nigro, cano et ad apicem fulvo-micante, palpis antennis pedibusque nigris, alis subcinereis.*

Body gray, clothed with black hairs and bristles: head hoary in front; a black stripe between the eyelets and the feelers; epistoma not prominent; sides of the face bristly at the base: eyes pitchy; fore part flat, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, truncated at the tip, full four times the length of the second joint; bristle deeply fringed, longer than the third joint: chest adorned with four black stripes: abdomen black, obconical, a little shorter but hardly broader than the chest, adorned with hoary, and towards the tip with tawny reflections, tawny beneath and on each side of the base above: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein forming hardly more than a right angle with the fourth longitudinal vein, curved inward near the base, straight from thence to the tip, joining the border at some distance above the tip of the wing; lower cross-vein with two very slight curves, the lower inward, the other outward; scales white, with pale yellow borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. South Africa. Presented by the Entomological Club.

Group III. *Muscina*, Desv. *Essai Myod.* 406.

**MUSCA** stabulans, Fall. *Musc.* 52, 32. Meig. *Dipt.* v. 75, 42, pl. 43, f. 35. Zett. *Ins. Lapp.* 660, 29. *Anthomyia cinerascens*, Wied. *Zool. Mag.* i. 1, 79, 28. *Musca prodeco*, Harr. *Ex.* 141, pl. 41, f. 41. *Muscina stabulans*, Desv. *Essai Myod.* 407, 2. *Cyrtoneura stabulans*, Macq. *Hist. Nat. Dipt.* ii. 277, 10. Meig. *Dipt.* vii. 309, 3. Zett. *Dipt. Scand.* iv. 1354, 9.

a. England.

b. France.

c. ———? From Mr. Children's collection.

d. ———? Presented by the Entomological Club.

e. Aix-la-Chapelle. Presented by F. Walker, Esq.

f. Nova Scotia. From Lieut. Redman's collection.

Group IV. *Dasyphora*, *Desv. Essai Myod.* 409.

- MUSCA agilis*, *Meig. Dipt.* v. 70, 33. *Morellia agilis*? *Desv. Essai Myod.* 405, 1. *Curtonevra agilis*? *Macq. Hist. Nat. Dipt.* ii. 276, 6.  
*a.* England.  
*b.* France.

ANTHOMYIA, *Meigen.*A. *Aricinæ*, *Desv. Essai Myod.* 473.*a.* *Aricinæ Terrestres*, *Desv. Essai Myod.* 476.Group I. *Macrosoma*, *Desv. Essai Myod.* 402.

- ANTHOMYIA lardaria*, *Meig. Dipt.* v. 83, 1. *Musca lardaria*, *Fabr. Sp. Ins.* ii. 436, 5. *Ent. Syst.* iv. 313, 5. *Syst. Anl.* 285, 6. *Gmel. Ed. Syst. Nat.* i. 5, 2840, 175. *Fall. Musc.* 54, 37. *M. levidus*, *Harr. Ex. pl.* 36, f. 52. *Macrosoma lardaria*, *Desv. Essai Myod.* 402, 1. *Aricia lardaria*, *Macq. Hist. Nat. Dipt.* ii. 286, 1. *Meig. Dipt.* vii. 313, 1. *Zett. Dipt. Scand.* iv. 1386, 1. *Anthomyza lardaria*, *Zett. Ins. Lapp.* 661, 1.  
*a.* England.  
*b.* France.

Group II. *Fellæa*, *Desv. Essai Myod.* 476.

- ANTHOMYIA urbana*, *Meig. Dipt.* v. 118, 60. *Musca lenis*, *Harr. Ex.* 147, pl. 43, f. 66. *M. Angelicæ*, var. *β. rustica*, *Fall. Musc.* 79. *Fellæa fera*, *Desv. Essai Myod.* 477, 1. *Aricia urbana*, *Macq. Hist. Nat. Dipt.* ii. 292, 27. *Hylemyia urbana*, *Meig. Dipt.* vii. 316, 62. *Anthomyza urbana*, *Zett. Dipt. Scand.* iv. 1651, 17.  
*a.* England.

- ANTHOMYIA Angelicæ*, *Hoffmansegg, Meig. Dipt.* v. 117, 59. *Ahrens Faun.* 10, pl. 25. *Zett. Ins. Lapp.* 688, 120.? *Musca Angelicæ*, *Scop. Ent. Carn.* 880. *Fall. Musc.* 78, 94. *M. deceptor*, *Gmel. Ed. Syst. Nat.* v. 2844, 202. *Schrank, Ins. Austr.* 458, 932. *Hylemyia Angelicæ*, *Meig. Dipt.* vii. 316, 61. *Anthomyza Angelicæ*, *Zett. Dipt. Scand.* iv. 1643, 8.  
*a.* Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA incana*, *Wied. Zool. Mag.* i. 81, 32. *Meig. Dipt.* v. 84, 3. *Zett. Ins. Lapp.* 662, 3. *Musca vicanus?* *Harr. Ex.* 152, *pl.* 45, *f.* 78. *M. nemorum*, *Fall. Musc.* 55, 39. *Fellæa nigripes*, *Desv. Essai Myod.* 477, 3. *Aricia incana*, *Macq. Hist. Nat. Dipt.* ii. 286, 4. *Meig. Dipt.* vii. 313, 3. *Zett. Dipt. Scand.* iv. 1389, 3.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

### Group III. *Mydæa*, *Desv. Essai Myod.* 478.

*ANTHOMYIA pagana*, *Meig. Dipt.* v. 116, 58. *Zett. Ins. Lapp.* 691, 132. *Musca pagana*, *Fabr. Ent. Syst.* iv. 326, 61. *Syst. Antl.* 288, 23. *Fall. Musc.* 79, 95. *M. princeps?* *Harr. Ex.* 151, *pl.* 45, *f.* 76. *Mydæa scutellaris* *Desv. Essai Myod.* 480, 5. *Aricia pagana*, *Macq. Hist. Nat. Dipt.* ii. 290, 21. *Hylemyia pagana*, *Meig. Dipt.* vii. 316, 60. *Anthomyza pagana*, *Zett. Dipt. Scand.* iv. 1696, 68.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA ruralis*, *Meig. Dipt.* v. 101, 32. *Mydæa nigripes*, *Desv. Myod.* 481, 9. *Aricia ruralis*, *Macq. Hist. Nat. Dipt.* ii. 291, 25.

a. England.

### Group IV. *Phaonia*, *Desv. Essai Myod.* 482.

*ANTHOMYIA erratica*, *Meig. Dipt.* v. 111, 49. *Musca erratica*, *Fall. Musc.* 77, 92. *M. validus*, *Harr. Ex.* 124, *pl.* 36, *f.* 50. *Phaonia viarum*, *Desv. Myod.* 482, 1. *Aricia erratica*, *Macq. Hist. Nat. Dipt.* ii. 287, 7, *pl.* 17, *f.* 1. *Meig. Dipt.* vii. 314, 16. *Anthomyza erratica*, *Zett. Dipt. Scand.* iv. 1693, 65.

a. England.

b. ———? From Mr. Children's collection.

*ANTHOMYIA signata*, *Meig. Dipt.* v. 113, 52. *Phaonia vagatoria?* *Desv. Myod.* 483, 2. *Aricia signata*, *Macq. Hist. Nat. Dipt.* ii. 288, 10. *Meig. Dipt.* vii. 314, 19. *Anthomyza signata*, *Zett. Dipt. Scand.* iv. 1638, 2.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group V. *Triennia*, *Desv. Essai Myod.* 484.

ANTHOMYIA *errans*, *Meig. Dipt.* v. 112, 50. *Zett. Ins. Lapp.* 688, 119. *Musca revolo?* *Harr. Ex.* 124, *pl.* 36, *f.* 51. *M. erratica*, *Fall. Musc.* 77, 92, var.  $\beta$ . *Triennia nigricornis*, *Desv. Myod.* 484, 1. *Aricia errans*, *Macq. Hist. Nat. Dipt.* ii. 287, 8. *Meig. Dipt.* vii. 314, 17. *Anthomyza errans*, *Zett. Dipt. Scand.* iv. 1636, 1.

a. England.

Group VI. *Euphemia*, *Desv. Essai. Myod.* 485.Group VII. *Aricia*, *Desv. Essai. Myod.* 486.

ANTHOMYIA *impuncta*, *Meig. Dipt.* v. 118, 61. *Zett. Ins. Lapp.* 691, 133. *Musca impuncta*, *Fall. Musc.* 79, 96. *Aricia impunctata?* *Desv. Myod.* 487, 8. *A. impuncta*, *Macq. Hist. Nat. Dipt.* ii. 293, 31. *Hylemyia impuncta*, *Meig. Dipt.* vii. 316, 63. *Zett. Dipt. Scand.* iv. 1698, 69.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group VIII. *Rohrella*, *Desv. Essai Myod.* 489.

ANTHOMYIA *testacea*, *Meig. Dipt.* v. 116, 57. *Musca testacea*, *Fabr. Sp. Ins.* ii. 440, 22. *Ent. Syst.* iv. 320, 32. *Gmel. Ed. Syst. Nat.* i. 5, 2842, 181. *Panz. Faun. Germ.* ix. 14. *M. subventus*, *Harr. Ex.* 145, *pl.* 43, *f.* 60. *M. scutellaris*, *Fall. Musc.* 90, 123. *Rohrella testacea*, *Desv. Essai Myod.* 490, 1. *Aricia testacea*, *Macq. Hist. Nat. Dipt.* ii. 290, 17.

a. England.

b. France.

ANTHOMYIA *Populi*, *Meig. Dipt.* v. 115, 55. *Musca testacea*, *Deg. Ins.* vi. 42. *M. pallida*, var. *Fall. Musc.* 89, 122. *Aricia Populi*, *Macq. Hist. Nat. Dipt.* ii. 289, 15. *Meig. Dipt.* vii. 314, 22. *Anthomyza Populi*, *Zett. Dipt. Scand.* v. 1742, 124.

a. England.

*ANTHOMYIA pallida*, *Meig. Dipt.* v. 115, 56. *Musca pallida*, *Fabr. Ent. Syst.* iv. 320, 33. *Syst. Antl.* 295, 53. *Gmel. Ed. Syst. Nat.* i. 5, 2842, 182. *Fall. Musc.* 89, 122. *M. testacea*, *Deg. Ins.* vi. 87, 16. *Rohrella fragilis*, *Desv. Myod.* 492, 7. *Aricia pallida*, *Macq. Hist. Nat. Dipt.* ii. 289, 16. *Meig. Dipt.* vii. 314, 23. *Anthomyza pallida*, *Zett. Dipt. Scand.* v. 1741, 123.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA uliginosa*, *Meig. Dipt.* v. 121, 67. *Musca uliginosa*, *Fall. Musc.* 81, 100. *M. deduco*, *Harr. Ex.* 125, pl. 36, f. 54. *Rohrella punctata*, *Desv. Essai Myod.* 492, 9. *Spilogaster uliginosa*, *Macq. Hist. Nat. Dipt.* ii. 294, 1, pl. 17, f. 2. *Hylemyia uliginosa*, *Meig. Dipt.* vii. 317, 85. *Anthomyza uliginosa*, *Zett. Dipt. Scand.* v. 1745, 128.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

#### Group IX. *Helina*, *Desv. Essai Myod.* 493.

#### Group X. *Mydina*, *Desv. Essai Myod.* 495.

*ANTHOMYIA quadrimaculata*, *Meig. Dipt.* v. 92, 16. *Zett. Ins. Lapp.* 670, 39. *Musca cornuta*, *Fabr. Syst. Antl.* 298, 71. *M. quadrimaculata*, *Fall. Musc.* 63, 61. *Hylemyia quadrimaculata*, *Meig. Dipt.* vii. 316, 24. *Aricia quadrimaculata*, *Zett. Dipt. Scand.* iv. 1477, 87.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA quadrum*, *Meig. Dipt.* v. 93, 18. *Zett. Ins. Lapp.* 689, 121. *Musca quadrum*, *Fabr. Syst. Antl.* 297, 67. *M. subpunctata*, *Fall. Musc.* 80, 97. *M. reversio*, *Harr. Ex.* 146, pl. 43, f. 62. *Mydina dispar*, *Desv. Myod.* 497, 4. *Spilogaster quadrum*, *Macq. Hist. Nat. Dipt.* ii. 295, 7. *Hylemyia quadrum*, *Meig. Dipt.* vii. 316, 48. *Anthomyza quadrum*, *Zett. Dipt. Scand.* iv. 1661, 27.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA dispar*, *Meig. Dipt.* v. 88, 11. *Zett. Ins. Lapp.* 665, 17. *Musca dispar*, *Fall. Musc.* 58, 48. *Spilogaster dispar*, *Macq. Hist. Nat. Dipt.* ii. 296, 12. *Aricia dispar*, *Meig. Dipt.* vii. 314, 11. *Zett. Dipt. Scand.* iv. 1396, 9.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group XI. Eginia, *Desv. Essai Myod.* 502.b. Aricinæ littorales, *Desv. Essai Myod.* 503.Group XII. Hydrophoria, *Desv. Essai Myod.* 503.

ANTHOMYIA conica, *Wied. Zool. Mag.* i. 79, 29. *Meig. Dipt.* v. 97, 25. *Ahrens, Faun.* 10, pl. 23. *Zett. Ins. Lapp.* 689, 124. *Musca conica*, var. a. *Fall. Musc.* 83, 107. *Hydrophoria tibialis*? *Desv. Myod.* 505, 5. *H. conica*, *Macq. Hist. Nat. Dipt.* ii. 298, 1. *Hylemyia conica*, *Meig. Dipt.* vii. 316, 42. *Anthomyza conica*, *Zett. Dipt. Scand.* iv. 1652, 18.

## a. England.

ANTHOMYIA fumosa, *Meig. Dipt.* v. 109, 45. *Hydrophoria fuliginosa*, *Desv. Myod.* 505, 4. *H. fumosa*, *Macq. Hist. Nat. Dipt.* ii. 300, 11.

## a. England.

ANTHOMYIA semicincta, *Wied. Zool. Mag.* i. 84, 37. *Meig. Dipt.* v. 108, 43. *Zett. Ins. Lapp.* 670, 40. *Musca hyalinata*, *Fall. Musc.* 64, 62. *Hydrophoria semicincta*, *Macq. Hist. Nat. Dipt.* ii. 301, 14. *Hylemyia semicincta*, *Meig. Dipt.* vii. 315, 5. *Aricia semicincta*, *Zett. Dipt. Scand.* iv. 1500, 111.

## a. England.

## b. Aix-la-Chapelle. Presented by F. Walker, Esq.

ANTHOMYIA albiceps, *Meig. Dipt.* v. 95, 21.

## a. England.

Group XIII. Potamia, *Desv. Essai Myod.* 507.Group XIV. Stagnia, *Desv. Essai Myod.* 508.Group XV. Hydrotæa, *Desv. Essai Myod.* 509.

ANTHOMYIA dentipes, *Meig. Dipt.* v. 144, 105. *Zett. Ins. Lapp.* 667, 27. *Musca dentipes*, *Fabr. Syst. Antl.* 303, 95. *Fall. Musc.* 60, 54. *M. domitor*, *Hurr. Ex.* 148, pl. 43, f. 71. *Hydrotæa monacantha*? *Desv. Myod.* 509, 1. *H. dentipes*, *Macq. Hist. Nat. Dipt.* ii. 303, 1. *Meig. Dipt.* vii. 224, 12. *Aricia dentipes*, *Zett. Dipt. Scand.* iv. 1426, 36, var. *Anthomyza anxia*, *Zett. Ins. Lapp.* 668, 29.

## a. Aix-la-Chapelle. Presented by F. Walker, Esq.



*ANTHOMYIA militaris*, *Meig. Dipt.* v. 136, 94. *Hydrotæa militaris*,  
*Macq. Hist. Nat. Dipt.* ii. 304, 2.

a. England.

*ANTHOMYIA bidens*, *Wied. Meig. Dipt.* v. 135, 92.

a. England.

*ANTHOMYIA cunctans*, *Meig. Dipt.* v. 133, 89.

a. England.

Group XVI. *Blainvillia*, *Desv. Essai Myod.* 514.

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*ANTHOMYIA leucostoma*, *Meig. Dipt.* v. 160, 136, vii. 326, 1. *Zett. Ins. Lapp.* 667, 28. *Musca leucostoma*, *Wied. Zool. Mag.* i. 1, 82, 34. *Fall. Musc.* 61, 56. ? *M. diabolus*? *Harr. Ex.* 126, *pl.* 36, *f.* 58. *Ophyra leucostoma*, *Macq. Hist. Nat. Dipt.* ii. 308, 1, *pl.* 17, *f.* 5.

a. England.

Group XVIII. *Peronia*, *Desv. Essai Myod.* 517.

Group XIX. *Limnophora*, *Desv. Essai Myod.* 517.

*ANTHOMYIA buccata*, *Meig. Dipt.* v. 146, 108, vii. 326, 14. *Musca buccata*, *Fall. Musc.* 65, 65. *Limnophora buccata*, *Macq. Hist. Nat. Dipt.* ii. 312, 12. *Aricia buccata*, *Zett. Dipt. Scand.* iv. 1506, 116.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group XX. *Cuculla*, *Desv. Essai Myod.* 523.

Group XXI. *Zaphne*, *Desv. Essai Myod.* 527.

B. *Limosellæ*, *Desv. Essai Myod.* 528.

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Group II. *Limosia*, *Desv. Essai Myod.* 535.

Group III. *Palusia*, *Desv. Essai Myod.* 542.

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a. Hylemydæ, *Desv. Essai. Myod.* 549.

Group I. Hylemya, *Desv. Essai Myod.* 550.

ANTHOMYIA præpotens, *Hoffmansegg, Wied. Zool. Mag.* i. 83, 36. *Meig. Dipt.* v. 127, 80. *Ahrens, Faun.* 10, 24. *Musca præpotens, Fall. Musc.* 83, 106. *Hylemyia præpotens, Macq. Hist. Nat. Dipt.* ii. 316, 1, pl. 17, f. 8. *Meig. Dipt.* vii. 317, 78, pl. 74, f. 11. *Anthomyza præpotens, Zett. Dipt. Scand.* iv. 1701, 75.

a. England.

ANTHOMYIA strigosa, *Meig. Dipt.* v. 131, 87. *Zett. Ins. Lapp.* 689, 125. *Musca strigosa, Fabr. Ent. Syst.* iv. 321, 39. *Syst. Antl.* 296, 61. *M. vagans, Panz. Faun. Germ.* 59, 18. *M. conica, var. β., &c. Fall. Musc.* 83, 107. *Hylemyia strigosa, Macq. Hist. Nat. Dipt.* ii. 317, 3. *Meig. Dipt.* vii. 316, 41. *Anthomyza strigosa, Zett. Dipt. Scand.* iv. 1654, 20.

a. England.

ANTHOMYIA fuscata, *Meig. Dipt.* v. 126, 78, pl. 44, f. 8. *Musca fuscata, Fall. Musc.* 85, 109. *Hylemyia fuscata, Meig. Dipt.* vii. 316, 77. *Anthomyza fuscata, Zett. Dipt. Scand.* iv. 1665, 30.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

ANTHOMYIA ruralis, *Meig. Dipt.* v. 101, 32.

a. England.

Group II. Egeria, *Desv. Essai Myod.* 555.

ANTHOMYIA Cardui, *Meig. Dipt.* v. 104, 37.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

ANTHOMYIA pullula. *A. longula, Meig. Dipt.* v. 103, 36. *Hylemyia longula, Macq. Hist. Nat. Dipt.* ii. 321, 23. *Meig. Dipt.* vii. 315, 16. *Aricia pullula, Zett. Dipt. Scand.* iv.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

ANTHOMYIA pusilla, *Meig. Dipt.* v. 151, 118.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

ANTHOMYIA assimilis, *Meig. Dipt.* v. 105, 39. *Musca assimilis, Fall. Musc.* 56, 41.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

b. Herbicolaë, *Desv. Essai Myod.* 556.

Group III. Nerina, *Desv. Essai Myod.* 557.

Group IV. Adia, *Desv. Essai Myod.* 558.

Group V. Phorbia, *Desv. Essai Myod.* 559.

Group VI. Chlœe, *Desv. Essai Myod.* 560.

Group VII. Leucophora, *Desv. Essai Myod.* 562.

c. Chorelleæ, *Desv. Essai Myod.* 564.

Group VIII. Fannia, *Desv. Essai Myod.* 567.

ANTHOMYIA scalaris, *Meig. Dipt.* v. 141, 102, vii. 326, 19. *Macq. Hist. Nat. Dipt.* ii. 333, 2. *Zett. Ins. Lapp.* 681, 87. A. manicata? *Leon Dufour, Ann. Sci. Nat. Extr.* 5, 2. *Musca scalaris, Fabr. Ent. Syst.* iv. 332, 83. *Syst. Anth.* 305, 106. *Fall. Musc.* 69, 73. *Fannia saltatrix, Desv. Essai Myod.* 567, 1. *Aricia scalaris, Zett. Dipt. Scand.* iv. 1575, 189.  
a. Aix-la-Chapelle. Presented by F. Walker, Esq.

ANTHOMYIA manicata, *Meig. Dipt.* v. 140, 100, vii. 327, 71. *Macq. Hist. Nat. Dipt.* ii. 333, 1. A. armillata, *Zett. Ins. Lapp.* 679, 76. Var. *Musca scalaris, Fall. Musc.* 69, 73. *Aricia manicata, Zett. Dipt. Scand.* iv. 1576, 190.  
a. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group IX. Philinta, *Desv. Essai Myod.* 568.

ANTHOMYIA canicularis, *Meig. Dipt.* v. 143, 104, vii. 326, 22. *Macq. Hist. Nat. Dipt.* ii. 334, 5. *Zett. Ins. Lapp.* 681, 86. *Musca canicularis, Linn. Syst. Nat.* ii. 992. *Faun. Suec.* 1841. *Gmel. Ed. Syst. Nat.* i. 5, 2847, 80. *Fabr. Sp. Ins.* ii. 443, 38. *Ent. Syst.* iv. 329, 70. *Syst. Anth.* 303, 97. *Schrank, Ins. Austr.* 462, 938. *Stew, El.* ii. 259. *Turt.* iii. 607. *Fall. Musc.* 69, 72. M. domestica minor, *Deg. Ins.* vi. 14, 5. M. socio, *Harr. Ex.* 147, pl. 43, f. 69, mas. M. constans, *Harr. Ex.* 149, pl. 43, f. 75, fem.? M. socio minor, *Harr. Ex.* 153. pl. 45, f. 83, var.? *Aricia canicularis, Zett. Dipt. Scand.* iv. 1573.  
a. England.  
b. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA lepida*, *Meig. Dipt.* v. 140, 101. *Musca lepida* ? *Wied. Zool. Mag.* i. 82, 33. *Fall. Musc.* 76, 90. *Anthomyza lepida* ? *Zett. Ins. Lapp.* 686, 110. *Aricia lepida* ? *Zett. Dipt. Scand.* iv. 1595, 209.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group X. *Aminta*, *Desv. Essai Myod.* 569.

Group XI. *Delia*, *Desv. Essai Myod.* 571.

Group XII. *Anthomya*, *Desv. Essai Myod.* 581.

*ANTHOMYIA pluvialis*, *Meig. Dipt.* v. 163, 141, vii. 327, 30. *Macq. Hist. Nat. Dipt.* ii. 340, 30, pl. 17, f. 13. *Zett. Ins. Lapp.* 680, 85. *Musca pluvialis*, *Linn. Syst. Nat.* 992. *Faun. Suec.* 1844. *Gmel. Ed. Syst. Nat.* i. 5, 2847, 83. *Fabr. Sp. Ins.* ii. 443, 40. *Ent. Syst.* iv. 329, 71. *Syst. Antl.* 304, 98. *Deg. Ins.* vi. 27, 6. *Schrank, Ins. Austr.* 939. *Faun. Boic.* iii. 2447. *Stew. El.* 260. *Turt.* iii. 607. *Don. Hist. Brit. Ins.* xi. 33, pl. 372. *Latr. Gen. Crust.* iv. 346. *Cons. Gén.* 444. *Fall. Musc.* 68, 71. *Musca*, &c., *Geoff. Ins.* ii. 529, 68. *M. litus*, *Harr. Ex.* 119, pl. 35, f. 32. *Aricia pluvialis*, *Zett. Dipt. Scand.* iv. 1558, 173.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA praticola*. *A. pratincola*, *Panz. Faun. Germ.* 108, 12. *A. pratinicola*, *Meig. Dipt.* v. 162, 140, vii. 327, 29, pl. 74, f. 24. *Macq. Hist. Nat. Dipt.* ii. 341, 34. *Aricia praticola*, *Zett. Dipt. Scand.* iv. 1559, 174.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group XIII. *Egle*, *Desv. Essai Myod.* 584.

*ANTHOMYIA radicum*, *Meig. Dipt.* v. 168, 148, vii. 327, 38. *Macq. Hist. Nat. Dipt.* ii. 341, 35. *Zett. Ins. Lapp.* 684, 104. *Musca radicum*, *Linn. Syst. Nat. Ed.* xii. 2, 992, 79. *Faun. Suec.* 1840. *Gmel. Ed. Syst. Nat.* i. 5, 2846, 79. *Fabr. Sp. Ins.* ii. 443, 35. *Fall. Musc.* 72, 78. *M. Napobrassicæ*, *Bjerkander, Act. Holm.* 1780, 196. *M. decore*, *Harr. Ex.* 146, pl. 43, f. 63. *Anthomyia Brassicæ*, *Wied. Zool. Mag.* i. 78, 27. *Scatophaga ceparum* ? *Kirby and Sp. Intr. Ent.* i. 190. *Egle vulgaris* ? *Desv. Essai Myod.* 584, 1. *Aricia radicum*, *Zett. Dipt. Scand.* iv. 1582, 196.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA ruficeps*, *Meig. Dipt.* v. 177, 162.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

d. Azelidæ, *Desv. Essai Myod.* 591.

Group XIV. Azelia, *Desv. Essai Myod.* 592.

D. Pegomydæ, *Desv. Essai Myod.* 595.

Group I. Pegomya, *Desv. Essai Myod.* 598.

*ANTHOMYIA bicolor*, *Wied. Zool. Mag.* i. 77, 26. *Meig. Dipt.* v. 185, 177. *Zett. Ins. Lapp.* 696, 158. *A. mitis*, *Meig. Dipt.* v. 183, 173. *Musca bicolor*, *Fall. Musc.* 91, 128. *M. lustrator*, *Harr. Ex.* 148, pl. 43, f. 72. *Pegomyia brunnicornis*, *Desv. Essai Myod.* 599, 2. *P. bicolor?* *Macq. Hist. Nat. Dipt.* ii. 351, 4. *P. mitis?* *Macq. Hist. Nat. Dipt.* ii. 351, 2. *Anthomyza mitis*, *Zett. Dipt. Scand.* v. 1773, 157.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA germana*, *Meig. Dipt.* v. 185, 176.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group II. Zabia, *Desv. Essai Myod.* 600.

Group III. Phoræa, *Desv. Essai Myod.* 600.

Group IV. Chlorina, *Desv. Essai Myod.* 602.

Group V. Phyllis, *Desv. Essai. Myod.* 603.

*ANTHOMYIA diaphana*, *Wied. Zool. Mag.* i. 81, 31. *Meig. Dipt.* v. 189, 185, vii. 328, 95. *Musca diaphana*, *Fall. Musc.* 92, 230. *Phyllis flava?* *Desv. Essai Myod.* 604, 2. *Pegomyia diaphana*, *Macq. Hist. Nat. Dipt.* ii. 353, 15. *Anthomyza diaphana*, *Zett. Dipt. Scand.* v. 1786, 170.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*Note.*—The following *Anthomyiæ* accord with Meigen's divisions; the preceding agree with Desvoidy's groups, which will be combined with the species of Meigen and of other authors in a future publication.

A. *Feeler-bristle feathered or hairy*, Meig. Dipt. v. pl. 44, f. 1, 2.

a. *Legs black*.

\* *Eyes hairy*.

ANTHOMYIA *albolineata*, Meig. Dipt. v. 83, 2. *Musca albolineata*, Fall. Musc. 54, 38. *Anthomyza albolineata*, Zett. Ins. Lapp. 662, 2. *Aricia albolineata*, Macq. Hist. Nat. Dipt. ii. 286, 2. Meig. Dipt. vii. 313, 2. Zett. Dipt. Scand. iv. 1388, 2.

a. England.

ANTHOMYIA *plumbea*? Meig. Dipt. v. 85, 5. Zett. Ins. Lapp. 662, 5. *Aricia plumbea*, Meig. Dipt. vii. 314, 5. Zett. Dipt. Scand. iv. 1392, 5.

a. England.

ANTHOMYIA *serva*, Meig. Dipt. v. 86, 6. Zett. Ins. Lapp. 663, 10. *Aricia serva*, Macq. Hist. Nat. Dipt. ii. 287, 5. Meig. Dipt. vii. 314, 6. Zett. Dipt. Scand. iv. 1397, 10.

a. England.

ANTHOMYIA *lugubris*? Meig. Dipt. v. 87, 8. *Aricia lugubris*? Meig. Dipt. vii. 1400, 13. Zett. Dipt. Scand. iv. 1400, 13.

a. England.

ANTHOMYIA *obscurata*, Meig. Dipt. v. 89, 12. Zett. Ins. Lapp. 664, 12. *Aricia obscurata*, Meig. Dipt. vii. 314, 12. Zett. Dipt. Scand. iv. 1394, 8, var. *Anthomyza Sahlbergi*, Zett. Ins. Lapp. 664, 13.

a. England.

ANTHOMYIA *Rugia*, n. s., fem. *Nigro-cinerea*, *thorace subvittato abdomine nigro-æneo cano micante, palpis antennis pedibusque, \* nigris, alis nigro-fuscis*.

Body black, slightly shining, clothed with black hairs and bristles: front of the head adorned with gray lustre; epistoma slightly prominent; sides of the face without bristles: eyes dark red, hairy; fore part nearly flat, all the facets very small: sucker and palpi black; sucker clothed with tawny hairs; palpi beset with black bristles: feelers black, a little shorter than the face; third joint slightly increasing in depth from the base to the tip, which is almost truncated, more than twice the length of the second joint; bristle full twice the length of the third joint, its first and second joints short, but distinct; third joint tapering, feathered with very

short hairs: chest slightly tinged with gray, which has some indistinct paler stripes: abdomen elliptical, brassy black, adorned with hoary reflections, hardly broader or longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings blackish brown, darkest at the base; wing-ribs and veins black; tip cross-vein with two slight curves, the lower inward and more distinct than the other, which is outward; scales grayish white, with yellow borders; poisers black. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**\*\* Eyes not hairy.**

ANTHOMYIA litorea, *Meig. Dipt.* v. 90, 13.? *Zett. Ins. Lapp.* 670, 38. *Musca litorea*, *Fall. Musc.* 63, 60. *Cænoscia litorea*? *Meig. Dipt.* vi. 334. *Aricia litorea*, *Zett. Dipt. Scand.* iv. 1473, 83.

a. England.

ANTHOMYIA notata, *Meig. Dipt.* v. 90, 14. *Musca notata*, *Fall. Musc.* 62, 59. *Spilogaster notata*, *Macq. Hist. Nat. Dipt.* ii. 296, 10. *Hylemyia notata*, *Meig. Dipt.* vii. 316, 22. *Aricia notata*, *Zett. Dipt. Scand.* iv. 1412, 25.

a. England.

ANTHOMYIA duplicata, *Meig. Dipt.* v. 92, 17. *Zett. Ins. Lapp.* 667, 26. *Spilogaster duplicata*, *Macq. Hist. Nat. Dipt.* ii. 296, 9.? *Hylemyia duplicata*, *Meig. Dipt.* vii. 316, 26. *Aricia duplicata*, *Zett. Dipt. Scand.* iv. 1410, 23.

a. ———? From Mr. Children's collection.

ANTHOMYIA hilaris, *Meig. Dipt.* v. 94, 19, *pl.* 44, *f.* 9. *Zett. Ins. Lapp.* 666, 21. *Musca hilaris*, *Fall. Musc.* 57, 44. *Hylemyia hilaris*, *Macq. Hist. Nat. Dipt.* ii. 319, 13. *Meig. Dipt.* vii. 315, 17. *Aricia hilaris*, *Zett. Ins. Lapp.* iv. 1423, 33.

a. Ukraine. Presented by Dr. Dowler.

ANTHOMYIA puella, *Meig. Dipt.* v. 96, 23.

a. England.

ANTHOMYIA variata, *Meig. Dipt.* v. 97, 24. *Zett. Ins. Lapp.* 667, 25. *Musca variata*, *Fall. Musc.* 59, 51. *Hylemyia variata*, *Meig. Dipt.* vii. 315, 8. *Aricia variata*, *Zett. Dipt. Scand.* iv. 1418, 29.

a. England.

*ANTHOMYIA sociata* ? *Meig. Dipt.* v. 98, 26.

*a.* England.

*ANTHOMYIA ambigua*, *Meig. Dipt.* v. 192, 191. *A. divisa*, *Meig. Dipt.* v. 99, 27. *Musca ambigua*, *Fall. Musc.* 56, 13. *Anthomyza lineato-collis*, *Zett. Ins. Lapp.* 629, 78. *Hylemyia divisa*, *Meig. Dipt.* vii. 315, 11. *Aricia ambigua*, *Zett. Dipt. Scand.* iv. 1415, 27.

*a.* England.

*ANTHOMYIA partita*, *Meig. Dipt.* v. 106, 29.

*a.* England.

*ANTHOMYIA cinerosa*. *A. cinerella*, *Meig. Dipt.* v. 100, 30. *Hylemyia cinerella*, *Meig. Dipt.* vii. 1450, 61. *Aricia cinerosa*, *Zett. Dipt. Scand.* iv. 1450, 61.

*a.* England.

*ANTHOMYIA intermedia*, *Meig. Dipt.* v. 102, 34.

*a.* England.

*ANTHOMYIA albescens* ? *A. albula* ? *Meig. Dipt.* v. 102, 35. *Musca buccata*, *Fall. Musc.* 65, 65. *Hylemyia albula*, *Meig. Dipt.* vii. 315, 15. *Aricia albescens*, *Zett. Dipt. Scand.* iv. 1520, 130.

*a.* ——— ? From Mr. Children's collection.

*ANTHOMYIA ancilla* ? *Meig. Dipt.* v. 105, 38.

*a.* England.

*ANTHOMYIA vespertina*, *Meig. Dipt.* v. 107, 41. *Musca vespertina*, *Fall. Musc.* 58, 49. *Hylemyia vespertina*, *Meig. Dipt.* vii. 315, 13. *Aricia vespertina*, *Zett. Dipt. Scand.* iv. 1406, 20.

*a.* England.

*ANTHOMYIA crassirostris* ? *Meig. Dipt.* v. 107, 42. *Musca flavipennis* ? *Fall. Musc.* 59, 52.

*a.* England.

*ANTHOMYIA dentimana*, *Megerle, Meig. Dipt.* v. 109, 44.

*a.* England.

*ANTHOMYIA denigrata*, *Meig. Dipt.* v. 110, 46.

*a.* England.

*ANTHOMYIA asella*, *Meig. Dipt.* v. 110, 47.

*a.* England.



*ANTHOMYIA nigrita*, Meig. *Dipt.* v. 110, 48. *Musca nigrita*, Fall. *Musc.* 60, 53.  
a. England.

*ANTHOMYIA palposa*, Barnston's MSS., fem. *Nigra, capite antico argenteo, antennis palpis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles: front of the head adorned with silvery lustre; epistoma not prominent; sides of the face without bristles: eyes dark red; fore part flat, its facets larger than those elsewhere: sucker and palpi black, hairy: feelers black, much shorter than the face; third joint linear, rounded at the tip, about twice the length of the second joint; bristle feathered with long hairs, twice the length of the third joint: abdomen elliptical, a little longer, but not broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings gray; wing-ribs and veins black; tip cross-vein straight; scales dingy white, with tawny borders, the lower extending far beyond the upper; poisers ferruginous. Length of the body 3 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA spinosa*, Barnston's MSS., mas. et fem. *Nigra, capite antice cano micante, abdomine nigro-æneo setoso, palpis antennis pedibusque nigris, alis cinereis.*

Body black, thickly clothed with black hairs and bristles; front of the head adorned with hoary lustre; epistoma not prominent; sides of the face without bristles; sucker and palpi black: eyes pitchy, convex; all the facets very small: feelers black, nearly as long as the face; third joint linear, rounded at the tip, about thrice the length of the second joint; bristle feathered with long hairs to the tip, more than twice the length of the third joint: abdomen elliptical, brassy black, longer, but not broader than the chest, very thickly beset with stout black bristles: legs black, clothed with black hairs and bristles; foot-cushions tawny; claws long: wings gray; wing-ribs pitchy; veins black, pitchy at the base; lower cross-vein with three curves, the lower and the upper curves outward, the latter much more distinct than the former, as is also the middle one, which is inward; scales dingy white, with pale tawny borders; poisers tawny. *Female*.—Abdomen bronze black, tinged with gray, less hairy than that of the male. Length of the body 4 lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**ANTHOMYIA** Apina, n. s., mas. et fem. *Nigro-cinerea, fulvescens, thorace nigro trivittato, abdominis segmentis nigro bimaculatis, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis basi subfulvis.*

Body black, clothed with black hairs and bristles: head hoary beneath; front adorned with white lustre; a gray stripe on the crown increasing in breadth from the eyelets to the base of the feelers; sides of the face with one or two bristles at the base; epistoma not prominent: eyes red, rather flat on the fore part, where the facets are a little larger than those elsewhere: sucker black, pitchy at the tip, clothed with a few tawny hairs; palpi black, beset with black bristles: feelers deep black, a little shorter than the face; third joint conical, rounded at the tip, a little more than twice the length of the second; bristle nearly thrice the length of the third joint, its second joint of moderate length, the third stout at the base, clothed with very short hairs till near the tip: chest adorned with a gray covering, which is mingled with tawny colour, and has three indistinct black stripes near together; breast hoary: abdomen obconical, a little longer and narrower than the chest, adorned with gray lustre, which has a tawny tinge; a black spot on each segment of the back: legs black, tinged with gray, clothed with black hairs and bristles; foot-cushions tawny: wings pale gray, with a slight tawny tinge at the base and along the veins near the fore border; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein slightly curved inward near the base, straight from thence to the tip; scales small, white, with pale yellow borders, the upper extending a very little beyond the lower; poisers pale tawny. Length of the body 3 lines; of the wings 6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**ANTHOMYIA** Anane, n. s., fem. *Nigro-cinerea, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis basi costaque fulvis.*

Body black, adorned with a dark gray covering, clothed with black hairs and bristles: sides of the face without bristles; epistoma very slightly prominent: eyes red, convex; all the facets very small: sucker black, clothed at the tip with tawny hairs; palpi black, slender, beset with black bristles: feelers black, nearly as long as the face; third joint linear, slightly rounded at the tip, less than twice the length of the second; bristle feathered with short hairs to the tip, about thrice the length of the third joint: abdomen obconical, longer and a little narrower than the chest: legs black,

clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions pitchy: wings pale gray, tawny towards the base and along the fore border; wing-ribs and veins tawny; lower cross-vein very slightly curved inward; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA* Lipsia, n. s., fem. *Nigro-cinerea, capite cano, abdomine cinereo-fulvo, palpis nigris, antennis ferrugineis, pedibus fulvis, tarsis nigris, alis subfulvis, marginibus posticis subcinereis.*

Body clothed with black hairs and bristles: head black, hoary in front; sides of the face without bristles; epistoma slightly prominent: eyes dark red, convex; facets of the fore part a little larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs towards the tip: palpi black, beset with black bristles: feelers ferruginous, nearly as long as the face; third joint linear, pitchy above and at the tip, which is almost truncated, more than twice the length of the second; bristle black, feathered with very short hairs to the tip, more than twice the length of the third joint, its first joint very short, second of moderate length: chest tinged with gray, adorned with four black stripes, of which the middle pair are parallel, narrow and distinct: abdomen obconical, adorned with a grayish tawny covering, longer than the chest; legs tawny, clothed with black hairs and bristles, rather long; feet black; foot-cushions tawny; fore feet widened towards the tips: wings slightly tawny, grayish along the hind borders; wing-ribs and veins tawny; veins black towards the tips; lower cross-vein much curved inward near the base, straight from thence to the tip; scales pale tawny, of moderate size, the upper extending a little beyond the lower; poisers yellow, tawny at the base. Length of the body 4 lines; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA* Pylone, n. s., fem. *Nigro-fusca, thorace nigro quadrivittato, abdomine subtessellato, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis.*

Body black, covered with brown, clothed with black hairs and bristles: sides of the face without bristles; epistoma not prominent: eyes red; fore part rather flat, its facets hardly larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, as long as the face; third

joint linear, slender, rounded at the tip, nearly four times the length of the second; bristle fringed nearly to the tip with long hairs, more than twice the length of the third joint: chest adorned with four black stripes: abdomen obconical, slightly tessellated, a little longer and broader than the chest: legs black, tinged with gray, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; cross-veins clouded with brown; lower cross-vein straight till near the tip, where it is very slightly curved outward; scales of moderate size, dingy white, with pale tawny borders, the lower extending somewhat beyond the upper; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. North America. Presented by the Entomological Club.

*ANTHOMYIA cana*, n. s., mas. *Cana, palpis flavo-albis apice latix, antennis nigris, seta pilis brevissimis hirta, pedibus nigris, alis limpidis.*

Body black, covered with hoary bloom, clothed with black hairs and bristles: head adorned with white lustre; epistoma not prominent: sides of the face without bristles: eyes dark red, not hairy: sucker black, clothed at the tip with tawny hairs; palpi yellowish white, compressed, very broad: feelers black, very short, hardly more than half the length of the face, covered with hoary bloom; third joint about twice the length of the second, flat above, slightly convex beneath, rounded at the tip; bristle stout at the base, feathered nearly to the tip with very short hairs, a little longer than the third joint: abdomen elliptical, a little longer and narrower than the chest; tip curved beneath, like that of *Phania*: legs black, covered with hoary bloom, clothed with black hairs and bristles; foot-cushions tawny: wings colourless; wing-ribs pitchy; veins black; lower cross-vein slightly curved inward; scales white, very large. Length of the body 2 lines; of the wings 4 lines.

a. New Holland. Presented by the Entomological Club.

*ANTHOMYIA nigripennis*, Barnston's MSS., fem. *Nigra, capite cinereo micante, abdomine nigro-aneio, palpis antennis pedibusque nigris, alis cinereis, basi venarumque marginibus nigro-fuscis.*

Body black, slightly shining, clothed with black hairs and bristles; front of the head adorned with gray lustre; epistoma slightly prominent; sides of the face without bristles: eyes red; fore part nearly flat, all the facets very small: sucker and palpi black; sucker pitchy towards the tip, clothed with tawny hairs; palpi beset with black bristles: feelers black, a little shorter than

the face ; third joint slightly increasing in depth from the base to the tip, which is almost truncated ; bristle full twice the length of the third joint, feathered with hairs of moderate length : abdomen elliptical, brassy black, hardly broader or longer than the chest ; legs black, clothed with black hairs and bristles ; foot-cushions tawny : wings dark gray, blackish at the base and along the borders of the veins ; wing-ribs and veins black ; tip cross-vein straight along half the length from the base, slightly curved outward from thence to the tip ; scales yellow, with pitchy borders. Length of the body  $3\frac{1}{2}$  lines ; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ANTHOMYIA Omole, n. s., fem. *Nigro-cinerea, capite fulvo vario, palpis antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles : head with a tawny tinge about the eyelets, gray in front and beneath, clothed beneath with hoary hairs ; epistoma ferruginous, not prominent ; sides of the face fringed with bristles for one-third of the length ; eyes red ; fore part slightly convex, its facets a little larger than those elsewhere : sucker black, clothed with tawny hairs ; palpi black, beset with black bristles : feelers black, a little shorter than the face ; third joint linear, rather deep, slightly rounded at the tip, near four times the length of the second ; bristle more than twice the length of the third joint : chest and breast slightly tinged with gray : abdomen elliptical, tinged with gray, a little longer and broader than the chest : legs black, clothed with black hairs and bristles ; foot-cushions tawny : wings gray ; wing-ribs pitchy ; veins black, pitchy towards the base ; fourth longitudinal vein slightly curved outwards in its latter course, inclining to the form of a tip cross-vein, joining the border very little below the tip of the wing ; lower cross-vein with two very slight curves, the lower inward, the other outward ; scales yellowish-white, with pale tawny borders ; poisers tawny. Length of the body 3— $3\frac{1}{2}$  lines ; of the wings 6—7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ANTHOMYIA similis, Barnston's MSS., fem. *Nigro-cinerea, capite albo micante, thorace subvittato, abdomine subtessellato, palpis antennis pedibusque nigris, alis subcinereis.* .

Body black, with a slight dark gray covering, clothed with black hairs and bristles : front of the head adorned with white lustre ; epistoma not prominent ; sides of the face without bristles :

eyes dark red ; fore part slightly convex ; all the facets very small : sucker and palpi black, hairy : feelers black, as long as the face ; third joint linear, truncated at the tip, full thrice the length of the second joint ; bristle feathered with rather long hairs, about twice the length of the third joint : chest indistinctly striped : abdomen oval, a little longer and broader than the chest, slightly tessellated with gray reflections : legs black, clothed with black hairs and bristles ; foot-cushions tawny : wings gray ; wing-ribs and veins pitchy ; tip cross-vein with two very slight curves, the lower inward, the other outward ; third longitudinal vein a little inclined upward towards the tip ; scales dingy white, the lower extending far beyond the upper ; poisers tawny. Length of the body  $3\frac{1}{2}$ —4 lines ; of the wings 7—8 lines. Allied to *Musca*.

Var.  $\beta$ . Borders of the scales tawny.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA nigra*, Barnston's MSS., fem. *Nigro-fusca, abdomine cinereo subtessellato, palpis antennis pedibusque nigris, alis cinereis.*

Body black, with a slight dark brown covering, clothed with black hairs and bristles : epistoma slightly prominent ; sides of the face bristly at the base : eyes red, convex ; all the facets small : sucker and palpi black, hairy : feelers black, as long as the face ; third joint linear, rounded at the tip, more than twice the length of the second ; bristle feathered with long hairs, more than twice the length of the third joint : abdomen oval, slightly tessellated with dark gray reflections, a little longer and broader than the chest : legs black, clothed with black hairs and bristles ; foot-cushions tawny ; wings gray ; wing-ribs and veins black ; lower cross-vein straight at the base and having two curves from thence to the tip, the lower inward, much deeper than the other, which is outward ; third longitudinal vein slightly inclined upward towards the tip ; scales dingy white, with pale tawny borders. Allied to *Musca*. Length of the body 4 lines ; of the wings 8 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA Teate*, n. s. *Nigro-fusca, capite antico fulvo, thorace subvittato, abdomine cinereo vitta nigra ornato, palpis antennis pedibusque nigris, alis flavo-cinereis.*

Body black, thickly clothed with black hairs and bristles : front of the head adorned with a tawny covering ; epistoma slightly prominent ; sides of the face without bristles : eyes dark red ; fore

part nearly flat ; all the facets very small : sucker and palpi black, hairy : feelers black ; third joint deep, linear, rounded at the tip, much longer than the second ; bristle stout and feathered with short hairs towards the base, very slender from thence to the tip, about thrice the length of the third joint : chest with a dark brown covering, indistinctly striped : abdomen gray, oval, adorned with a single black stripe, a little longer and broader than the chest : legs black, clothed with black hairs and bristles ; shanks ferruginous ; foot-cushions tawny : wings yellowish gray ; wing-ribs and veins black ; tip cross-vein with two curves, the lower inward, shorter and much more distinct than the other, which is outward and very slight ; scales white, with pale tawny borders, the lower extending far beyond the upper ; poisers tawny. Length of the body  $3\frac{1}{2}$  lines ; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ANTHOMYIA Orata, n. s., fem. *Nigra, pedibus nigris, alis cinereis.*

Body black, clothed with black hairs and bristles : eyes bright red, convex ; all the facets very small : legs black, clothed with black hairs and bristles : wings gray ; wing-ribs and veins black ; scales dingy white, with tawny borders, the lower extending beyond the upper. Length of the body 3 lines ; of the wings 6 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

ANTHOMYIA nigrifrons, Barnston's MSS., fem. *Nigra, flavo-fusco tecta, palpis antennis pedibusque nigris, alis subcinereis ad costam basi subfulvis.*

Body black, adorned with a yellowish brown covering, clothed with black hairs and bristles : epistoma slightly prominent ; sides of the face without bristles : eyes dark red ; fore part convex ; all the facets very small : sucker and palpi black, hairy : feelers black, nearly as long as the face ; third joint linear, almost truncated at the tip, more than twice the length of the second joint ; bristle feathered with short hairs along the whole length, about twice the length of the third joint : abdomen nearly oval, not longer nor broader than the chest : legs black, clothed with black hairs and bristles ; foot-cushions pitchy : wings pale gray, with a slight tawny tinge along the fore border towards the base ; wing-ribs tawny ; veins black, tawny towards the base ; tip cross-vein straight ; scales dingy white, with pale tawny borders ; poisers tawny. Length of the body  $2\frac{1}{2}$  lines ; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**ANTHOMYIA** Barpana, n. s., fem. *Nigro-cinerea, capite albo-micante, thorace trivittato, abdomine cano et ad apicem fulvo micante, palpis antennis pedibusque nigris, alis subfuscis.*

Body black, clothed with black hairs and bristles: front of the head adorned with white lustre; epistoma slightly prominent; sides of the face without bristles: eyes red, convex; all the facets very small: sucker and palpi black; sucker clothed with tawny hairs; palpi beset with black bristles: feelers black, a little shorter than the face; third joint nearly linear, truncated at the tip, more than twice the length of the second joint; bristle tapering, stout at the base, feathered with hairs of moderate length, more than twice the length of the third joint: chest adorned with three gray stripes, its sides and the breast tinged with gray: abdomen elliptical, as long and as broad as the chest, adorned with hoary lustre, which has a tawny tinge toward the tip; legs black, clothed with black hairs and bristles; foot-cushions tawny: wings slightly brown; wing-ribs and veins black; tip cross-vein with two very slight curves, the lower inward, the upper outward; scales white, with pale yellow borders; poisers black. Length of the body 3 lines; of the wings 6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**ANTHOMYIA** Narina, n. s., fem. *Cervina, palpis antennis pedibusque nigris, alis subcinereis basi subfulvis.*

Body pale fawn-colour, clothed with black hairs and bristles: breast and under side of the head hoary: epistoma not prominent; sides of the face without bristles: eyes pitchy; fore part slightly convex; all the facets very small: sucker and palpi black, hairy: feelers black, shorter than the face; third joint linear, rounded at the tip, about twice the length of the second; bristle feathered with short hairs for full half its length, bare from thence to the tip, more than twice the length of the third joint: abdomen nearly elliptical, a little broader but not longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray, with a tawny tinge towards the base; wing-ribs and veins black; veins yellow at the base; tip cross-vein nearly straight; scales white, with pale yellow borders; the lower advancing much beyond the upper; poisers bright pale tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.



**ANTHOMYIA** *Concana*, n. s., fem. *Cinerea, thorace vittis duabus nigris, abdomine maculis quatuor fuscis, palpis antennisque nigris, pedibus piceis, tarsis nigris, alis limpidis.*

Body gray, clothed with black hairs and bristles: epistoma not prominent; sides of the face without bristles: eyes bright red, convex; all the facets very small: sucker and palpi black, clothed with black hairs; feelers black, nearly as long as the face; third joint more than twice the length of the second, linear, its tip truncated above, rounded beneath; bristle slender, deeply feathered, full twice the length of the third joint: chest with two slender black stripes: abdomen obconical, a little longer but not broader than the chest; third and fourth segments adorned with a large brown spot on each side: legs pitchy, clothed with black hairs and bristles; feet black; foot-cushions pale yellow: wings colourless; wing-ribs and veins tawny; cross-veins black; tip cross-vein with two very indistinct curves, the lower outward, the upper inward; scales white, rather large, the lower extending beyond the upper; poisers tawny. Length of the body 2 lines; of the wings 5 lines.

a. China. Presented by G. T. Lay, Esq.

b. *Legs wholly or mostly yellow.*

\* *Eyes hairy.*

**ANTHOMYIA** *vagans*, Meig. *Dipt.* v. 112, 51. *Zett. Ins. Lapp.* 688, 118. *Musca vagans*, Fall. *Musc.* 78, 93. *Aricia vagans*, Macq. *Hist. Nat. Dipt.* ii. 288, 9. Meig. *Dipt.* vii. 314, 18. *Anthomyza vagans*, Zett. *Dipt. Scand.* iv. 1638, 3.

a. England.

**ANTHOMYIA** *Luteva*, n. s., fem. *Nigro-cinerea, faciei lateribus scutelloque ferrugineis, thorace vittis quatuor nigris, abdomine nigro-æneo tessellis cinereis, palpis antennisque nigris, pedibus ferrugineis, femoribus nigro-vittatis, tarsis nigris, alis subcinereis, nervis transversis fusco nebulosis.*

Body black, adorned with a gray covering: epistoma prominent; sides of the face ferruginous, without bristles: eyes red; fore part rather flat, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint full four times the length of the second, slightly increasing in breadth towards the tip, which is rounded; bristle feathered nearly to the tip with long hairs, more than twice the length of the third joint:

chest adorned with four black stripes; scutcheon ferruginous: abdomen nearly elliptical, brassy black, tessellated with gray, a little broader, but not longer than the chest: legs ferruginous, clothed with black hairs and bristles; thighs striped with black; feet black; foot-cushions pitchy: wings slightly gray; wing-ribs pitchy; veins black; cross-veins clouded with brown; lower cross-vein with two curves, the lower inward, irregular, longer, but much less distinct than the other, which is outward; scales white, with yellow borders; poisers tawny. Length of the body 4 lines; of the wings 8 lines.

*a.* Nova Scotia. From Lieut. Redman's collection.

**\*\* Eyes not hairy.**

*ANTHOMYIA modesta*, *Wied. Meig. Dipt.* v. 119, 63. *Aricia modesta*, *Macq. Hist. Nat. Dipt.* ii. 293, 32. *Hylemyia modesta*, *Meig. Dipt.* vii. 316, 82. *Anthomyza modesta*, *Zett. Dipt. Scand.* iv. 1699, 71.

*a.* France.

*ANTHOMYIA tetrastigma*, *Meig. Dipt.* v. 120, 66.

*a.* England.

*ANTHOMYIA clara*, *Hoffmansegg, Meig. Dipt.* v. 121, 68.

*a.* ———? From Mr. Children's collection.

*ANTHOMYIA simplex*, *Wied. Zool. Mag.* i. 84, 38. *Meig. Dipt.* v. 122, 69.

*a.* ———? Presented by the Entomological Club.

*b.* ———? From Mr. Children's collection.

*ANTHOMYIA sericata*? *Meig. Dipt.* v. 124, 74.

*a.* France.

*ANTHOMYIA coarctata*, *Meig. Dipt.* v. 130, 85. *Musca coarctata*, *Fall. Musc.* 84, 108. *Anthomyza coarctata*, *Zett. Ins. Lapp.* 690, 127. *Dipt. Scand.* iv. 1644, 10. *Hylemyia coarctata*, *Macq. Hist. Nat. Dipt.* ii. 322, 26. *Meig. Dipt.* vii. 316, 41.

*a.* England.

**ANTHOMYIA** Bysia, n. s., fem. *Nigro-cinerea, capite antico cano lateribus ferrugineis, thorace nigro trivittato, humeris fulvis, abdomine cano, antennis piceis, basi palpisque ferrugineis, pedibus fulvis, tarsis nigris, alis subfulvis.*

Body slender, black: head and chest tinged with gray: front of the head slightly adorned with hoary lustre; sides of the face ferruginous, without bristles; epistoma not prominent: eyes bright red; fore part slightly convex, its facets a little larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi ferruginous, beset with black bristles: feelers pitchy, as long as the face; first and second joints ferruginous; third joint linear, rounded at the tip, ferruginous at the base, almost thrice the length of the second joint; bristle feathered to the tip with short hairs, much more than twice the length of the third joint: chest with three black stripes; shoulders tawny: abdomen elliptical, a little longer and broader than the chest, adorned with a hoary covering: legs tawny, slender, clothed with black hairs and bristles; feet black: wings slightly tawny; wing-ribs and veins tawny; tip cross-vein very slightly curved inward along the whole length; scales small, white with yellow borders, the lower not extending beyond the upper; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**ANTHOMYIA** Tröene, n. s., fem. *Nigra, fulvo tecta, thorace fusco quadrivittato, scutelli apice abdominisque segmentorum marginibus posticis fulvis, antennis nigris basi ferrugineis, palpis pedibusque fulvis, alis fulvo-subcinereis.*

Body black, clothed with black hairs and bristles, adorned with a fawn-coloured covering: head darker on the crown; epistoma not prominent; sides of the face without bristles: eyes red; fore part slightly convex; all the facets very small: sucker black, clothed with tawny hairs; palpi dark tawny, beset with black bristles: feelers black, as long as the face; first and second joints pale ferruginous; third joint linear, ferruginous at the base, truncated at the tip, about twice the length of the second joint; bristle feathered to the tip with short hairs, much more than twice the length of the third joint: chest adorned with four brown stripes; tip of the scutcheon tawny: abdomen oval, a little broader and longer than the chest; hind borders of the segments tawny: legs tawny, clothed with black hairs and bristles; foot-cushions pale tawny: wings pale gray, with a slight tawny tinge; wing-ribs tawny; veins black, tawny at the base; cross-veins clouded with dark brown; tip cross-

vein almost straight, but having a very indistinct inward curve; scales dingy white, with yellow borders, the lower extending far beyond the upper; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. Nova Scotia. From Lieut. Redman's collection..

*ANTHOMYIA* *Æmene*, n. s., fem. *Cervina, capite fulvo supra ferrugineo subtus canescente, thoracis lateribus scutello abdomineque fulvis, hujus suturis nigris, antennis piceis basi fulvis, palpis pedibusque fulvis, tarsis nigris, alis fulvis.*

Body clothed with black hairs and bristles: head tawny, ferruginous above, with a hoary tinge beneath; sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets very small: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, much shorter than the face; third joint pitchy, linear, ferruginous at the base, almost truncated at the tip, nearly twice the length of the second joint; bristle black, feathered to the tip with short hairs, about thrice the length of the third joint: chest and breast fawn-colour; sides pale tawny: scutcheon tawny: abdomen tawny, obconical, longer than the chest; sutures of the segments black: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions pitchy: wings tawny; wing-ribs and veins tawny; tips of the veins pitchy; tip cross-vein straight; scales tawny, small, the lower not extending much beyond the upper; poisers pale yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*ANTHOMYIA* *Alcathoe*, n. s., mas. *Nigra, fulvo tecta, capite cano anticè fulvo, pectore cano. abdomine cano micante, vitta dorsali marginibusque segmentorum posticis nigris, antennis nigris basi ferrugineis, palpis pedibusque fulvis, tarsis nigris, alis fulvis, apicibus marginibusque posticis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with a hoary covering; face pale tawny, its sides without bristles; epistoma not prominent: eyes dark red; fore part rather flat, its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, slender, beset with black bristles: feelers black, nearly as long as the face; first and second joints ferruginous; third joint about thrice the length of the second, very slightly convex beneath and equally concave above, almost truncated at the tip; bristle feathered to the tip with long hairs, more than twice the length of the third joint: chest adorned with a dull pale tawny co-

vering: breast hoary; scutcheon tawny beneath: abdomen obconical, longer than the chest, tawny with hoary reflections, and having a black stripe on the back, and a black band on the hind border of each segment: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions pitchy: wings tawny, pale gray at the tips and along the hind borders; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein curved inward along half the length from the base, almost straight from thence to the tip; scales yellow: wing-ribs tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*ANTHOMYIA* Lysinoe, n. s., mas. *Nigra, cinereo-fulvo tecta, capite anticè albo micante, facie cana lateribus fulvis, thorace nigro quadrivittato, abdomine fulvo, antennis nigris basi fulvis, palpis pedibusque fulvis, tarsis nigris, alis subcinereis.*

Body clothed with black hairs and bristles: head and chest adorned with a grayish tawny covering: head with a white lustre in front; face hoary, its sides tawny without bristles; epistoma not prominent: eyes red; fore part rather flat, its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, nearly as long as the face; first and second joints tawny; third joint ferruginous at the base, almost thrice the length of the second joint, very slightly increasing in depth towards the tip, which is somewhat truncated; bristle feathered to the tip with short hairs, much more than twice the length of the third joint: chest with four black stripes: abdomen oval, tawny, hardly longer than the chest: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions pale yellow, large: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; tip cross-vein straight; scales dingy white, with yellow borders, the lower extending far beyond the upper; poisers tawny. Length of the body  $2\frac{1}{2}$ —3 lines; of the wings 5—6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*ANTHOMYIA* Ausoba, n. s., fem. *Nigra, cinereo-fulvo vestita, capite supra fulvo subtus cano, antennis palpisque nigris, pedibus fulvis, alis subcinereis basi subfulvis.*

Body black, with a dull grayish tawny covering, clothed with black hairs and bristles: head bright pale tawny above, hoary beneath; sides of the face without bristles; epistoma not prominent: eyes red; fore part almost flat; all the facets very small: sucker black, clothed with tawny hairs; palpi black, beset with black

les: feelers black, nearly as long as the face; third joint linear, almost four times the length of the second, its tip truncated above, rounded beneath; bristle feathered nearly to the tip with moderately long hairs, much more than twice the length of the third joint: abdomen elliptical, a little longer than the chest: legs tawny, clothed with black hairs and bristles; claws black: wings pale gray, slightly tinged with tawny towards the base; wing-ribs and veins tawny; cross-veins darker; tip cross-vein straight; scales white, with yellow borders, the lower extending far beyond the upper; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*ANTHOMYIA* Signia, n. s., fem. *Fulva, capitis vertice nigro, thorace antico vittis tribus canis, abdomine nigro basi fulvo apice subcano, antennis nigris basi fulvis, palpis pedibusque fulvis, tarsis nigris, alis subfulvis.*

Body tawny, beset with black hairs and bristles: crown of the head black; sides of the face without bristles; epistoma not prominent: eyes red; fore part slightly convex, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, nearly as long as the face; first and second joints tawny; third linear, truncated at the tip, almost thrice the length of the second joint; bristle feathered to the tip with very short hairs, almost thrice the length of the third joint: fore part of the chest adorned with three indistinct hoary stripes: abdomen black, oval, a little longer and broader than the chest, with a hoary tinge towards the tip; first segment and sides of the second and third segments tawny: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions pale tawny: wings slightly tawny; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein with two very indistinct curves, the lower outward, the other inward; scales yellow, of moderate size, the lower extending a little beyond the upper; poisers tawny. Very near allied to *A. Geldria*. Length of the body  $3\frac{1}{4}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

*ANTHOMYIA* Perce, n. s., fem. *Fulva, facie albo micante, thorace antico vittis tribus canis, abdominis apice nigro, palpis antennis pedibusque fulvis, alis subfulvis.*

Body tawny, clothed with black hairs and bristles: face adorned with white lustre, its sides without bristles; epistoma not prominent: eyes red; fore part slightly convex, its facets much

larger than those elsewhere: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, as long as the face; third joint long, linear, tinged with white, rounded at the tip, more than four times the length of the second joint; bristle feathered with long hairs, pitchy towards the tip, less than twice the length of the third joint: fore part of the chest adorned with three hoary stripes: abdomen a little longer than broad, black towards the tip, rather shorter than the chest: legs tawny, clothed with black hairs and bristles; claws black: wings slightly tawny; wing-ribs tawny; veins pitchy, tawny towards the base; tip cross-vein much curved inward along half the length from the base, almost straight from thence to the tip; scales pale yellow, with yellow borders, the lower extending far beyond the upper; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

*a.* Madras. Presented by Walter Elliot, Esq.

*Male.* ?—Eyes black: third joint of the feelers dark tawny, slightly increasing in depth towards the tip, hardly thrice the length of the second joint: fourth and fifth abdominal segments black, adorned with a tawny stripe, and with tawny hind borders: wing-veins black; tip cross-vein slightly curved inward.

*a.* East India. From Archdeacon Clerk's collection.

*ANTHOMYIA* Geldria, n. s., fem. *Fulva, capite cano micante, thorace antico vittis tribus canis, abdominis vitta dorsali nigra, antennis nigris basi ferrugineis, palpis pedibusque fulvis, tursis nigris, alis subfulvis.*

Body tawny, clothed with black hairs and bristles: face and sides of the crown adorned with hoary lustre; sides of the face without bristles; epistoma not prominent: eyes dark red, convex; facets of the fore part hardly larger than those elsewhere: sucker ferruginous, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, a little shorter than the face; first and second joints pale ferruginous; third joint linear, ferruginous at the base, almost truncated at the tip, full twice the length of the second joint; bristle feathered to the tip with very short hairs, much more than twice the length of the third joint: fore part of the chest adorned with three indistinct hoary stripes: abdomen oval, a little longer and broader than the chest, adorned with a black stripe which begins near the base and widens towards the tip, where it occupies the whole breadth: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions pale tawny: wings slightly tawny; wing-ribs tawny; veins black, tawny towards the base;

tip cross-vein straight; scales yellow, of moderate size, the lower extending a little beyond the upper; poisers tawny. Length of the body  $2\frac{3}{4}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

ANTHOMYIA Alone, n. s., fem. *Nigro-cinerea, capite antico subfulvo, palpis antennisque nigris, pedibus fulvis, alis subcinereis basi nervorumque marginibus subfulvis.*

Body black, clothed with black hairs and bristles, adorned with a gray covering: head silky and somewhat tawny in front; sides of the face without bristles; epistoma slightly prominent: eyes red; fore part nearly flat, its facets larger than those elsewhere: sucker black, clothed with tawny hairs; palpi long, black, slender, beset with black bristles: feelers black, nearly as long as the face; third joint flat above till just before the tip, where it slightly rises, indistinctly convex beneath, truncated at the tip, a little more than twice the length of the second joint; bristle feathered with short hairs to the tip, about twice the length of the third joint: chest not striped: abdomen obconical, longer and a little broader than the chest: legs stout, tawny, thickly clothed with hairs and bristles; claws long, black; foot-cushions very pale yellow: wings pale gray, with a slight tawny tinge on the fore border and along the borders of the veins; lower cross-vein almost straight; scales rather large, dingy white with yellow borders, the lower extending far beyond the upper; poisers yellow. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ANTHOMYIA soccata, Barnston's MSS., fem. *Nigro-cinerea, thorace vittis tribus aut quinque nigro-æneis, palpis antennisque nigris, pedibus fulvis, tarsis nigris, alis subcinereis, basi nervorumque marginibus subfulvis.*

Body black, clothed with black hairs and bristles: head gray in front; sides of the face without bristles; epistoma slightly prominent: eyes dark red; facets larger than usual, especially on the fore part, which is slightly convex: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, rather more than twice the length of the second joint, slightly rounded at the tip, especially towards the underside; bristle feathered to the tip with long hairs, more than twice the length of the third joint: chest with dark gray covering, adorned with three, or perhaps, five black



stripes, which have a very slight brassy tinge: abdomen oval, a little broader but hardly longer than the chest, adorned with a gray covering, which has a tawny tinge, and is interrupted by a black stripe on the back: legs tawny, clothed with black hairs and bristles; shanks rather darker than the thighs; feet black: wings pale gray, slightly tawny at the base, and along the borders of the veins, especially of the cross-veins; lower cross-vein almost straight, though very slightly waving; scales pale tawny, with darker borders, of moderate size, the lower extending beyond the upper; poisers pale yellow, with tawny knobs. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

B. *Feeler-bristle downy or bare.*

a. *Legs black.*

\* *Eyes hairy.*

ANTHOMYIA occulta? *Wied. Meig. Dipt. v. 133, 90.* Anthomyza glabricula? *Var. c. Zett. Ins. Lapp. 687, 18.* Hydrotæa oculata? *Macq. Hist. Nat. Dipt. ii. 305, 9.* Lasiops hirta? *Meig. Dipt. vii. 324, 2.*

a. Italy. From Dr. Leach's collection.

\*\* *Eyes not hairy.*

ANTHOMYIA irritans, *Meig. Dipt. v. 134, 91.* *Zett. Ins. Lapp. 668, 30.* Musca irritans, *Fall. Musc. 62, 58.* Hydrotæa irritans, *Macq. Hist. Nat. Dipt. ii. 306, 13.* *Meig. Dipt. vii. 324, 4.* Aricia irritans, *Zett. Dipt. Scand. iv. 1431, 40.*

a. ———?

ANTHOMYIA palæstrica, *Meig. Dipt. v. 135, 93.* Hydrotæa palæstrica, *Meig. Dipt. vii. 1324, 6.* Aricia palæstrica, *Zett. Ins. Lapp. iv. 1428, 37.*

a. ———?

ANTHOMYIA meteorica, *Meig. Dipt. v. 137, 96.* *Zett. Ins. Lapp. 668, 32.* Musca meteorica, *Linn. Faun. Suec. 1849.* *Fabr. Syst. Antl. 306, 110.* *Panz. Faun. Germ. i. 19.* M. vaccarum, *De Geer, Ins. vi. 85, 14, pl. 5, f. 1.* *Fall. Musc. 64, 63.* Hydrotæa meteorica, *Macq. Hist. Nat. Dipt. ii. 306, 12.* *Meig. Dipt. vii. 324, 9.* Aricia meteorica, *Zett. Dipt. Scand. iv. 1427, 39.*

a. England.

*ANTHOMYIA incompta*, *Meig. Dipt.* v. 138, 97.

*a.* England.

*ANTHOMYIA armipes*, *Meig. Dipt.* v. 138, 98. *Musca armipes*, *Fall. Musc.* 75, 86. *Hydrotæa armipes*, *Macq. Hist. Nat. Dipt.* ii. 305, 8. *Meig. Dipt.* vii. 324, 11. *Aricia armipes*, *Zett. Dipt. Scand.* iv. 1431, 44.

*a.* England.

*ANTHOMYIA blanda*, *Meig. Dipt.* v. 142, 103.

*a.* England.

*ANTHOMYIA floricola*? *Meig. Dipt.* v. 145, 106.

*a.* England.

*ANTHOMYIA argyrocephala*, *Meig. Dipt.* v. 145, 107.

*a.* England.

*ANTHOMYIA angustifrons*, *Meig. Dipt.* v. 146, 109.

*a.* England.

*ANTHOMYIA sponsa*, *Wied. Meig. Dipt.* v. 147, 110.

*a.* England.

*ANTHOMYIA compuncta*, *Wied. Zool. Mag.* i. 80, 30. *Meig. Dipt.* v. 147, 111. *Limnophora compuncta*, *Macq. Hist. Nat. Dipt.* ii. 311, 5. *Aricia compuncta*, *Zett. Dipt. Scand.* iv. 1457, 68.

*a.* England.

*ANTHOMYIA pacifica*, *Meig. Dipt.* v. 149, 113.

*a.* England.

*ANTHOMYIA omissa*, *Meig. Dipt.* v. 149, 114.

*a.* France.

*ANTHOMYIA cinerascens*, *Meig. Dipt.* v. 150, 116.

*a.* England.

*ANTHOMYIA diadema*, *Meig. Dipt.* v. 151, 117.

*a.* England.

*ANTHOMYIA tristis*, *Meig. Dipt.* v. 153, 122.

*a.* England.

*ANTHOMYIA atramentaria*, *Meig. Dipt.* v. 153, 123.

*a.* England.

*ANTHOMYIA carbonaria?* *Meig. Dipt.* v. 154, 124.

*a.* England.

*ANTHOMYIA fumigata?* *Wied. Meig. Dipt.* v. 154, 125.

*a.* England.

*ANTHOMYIA pratensis, Meig. Dipt.* v. 158, 132.

*a.* England.

*ANTHOMYIA albicincta, Meig. Dipt.* v. 161, 138, vii. 327, 28. *Macq.*

*Hist. Nat. Dipt.* ii. 338, 20. *Zett. Ins. Lapp.* 685, 106.

*Musca albicincta, Fall. Musc.* 73, 81. *Aricia albicincta, Zett.*

*Dipt. Scand.* iv. 1601, 216.

*a.* Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA triquetra, Wied. Zool. Mag.* i. 85. *Meig. Dipt.* v. 162,

139, vii. 327, 26. *Zett. Ins. Lapp.* 685, 105. *Musca ambu-*

*lans, Schrank, Faun. Boic.* iii. 2469. *M. triquetra, Fall. Musc.*

73, 80. *M. ornata, Harr. Ex.* 146, *pl.* 43, *f.* 64. *M. lepida,*

*var. β., Fall. Musc.* 77. *Aricia triquetra, Zett. Dipt. Scand.*

iv. 1590, 205.

*a.* Aix-la-Chapelle. Presented by F. Walker, Esq.

*ANTHOMYIA gnava?* *Meig. Dipt.* v. 164, 142.

*a.* England.

*ANTHOMYIA floralis?* *Meig. Dipt.* v. 165, 143, vii. 327, 33. *Macq.*

*Hist. Nat. Dipt.* ii. 337, 15. *Musca floralis?* *Fall. Musc.* 71,

76. *Anthomyza floralis?* *Zett. Ins. Lapp.* 684, 102. *Aricia*

*floralis?* *Zett. Dipt. Scand.* iv. 1536, 147.

*a.* England.

*ANTHOMYIA promissa?* *Meig. Dipt.* v. 166, 144.

*a.* England.

*ANTHOMYIA antiqua?* *Meig. Dipt.* v. 166, 145, vii. 327, 34. *Aricia*

*antiqua?* *Zett. Dipt. Scand.* iv. 1566, 180.

*a.* England.

*ANTHOMYIA varicolor?* *Meig. Dipt.* v. 167, 146.

*a.* England.

*ANTHOMYIA æstiva?* *Meig. Dipt.* v. 169, 149.

*a.* England.

*ANTHOMYIA platura?* *Meig. Dipt.* v. 171, 152.

*a.* England.

*ANTHOMYIA discreta?* Meig. Dipt. v. 172, 155.

a. England.

*ANTHOMYIA intersecta?* Meig. Dipt. v. 175, 159, vii. 327, 48.

*Aricia intersecta?* Zett. Dipt. Scand. iv. 1548, 161.

a. England.

*ANTHOMYIA Tyana*, n. s., fem. *Fusco-nigra, capite antice albido, thorace nigro trivittato, abdominis vitta et segmentorum suturis nigris, palpis antennis pedibusque nigris, alis subcinereis.*

Body black, adorned with a pale brown covering, clothed with black hairs and bristles: head ferruginous at the base of the feelers, whitish in front; sides of the face without bristles; epistoma very slightly prominent: eyes red, convex; all the facets very small: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, deep, almost truncated at the tip, more than twice the length of the second; bristle downy, more than twice the length of the third joint: chest adorned with three brown stripes: abdomen spindle-shaped, a little longer than the chest, adorned with a black stripe; sutures of the segments black: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein straight, with the exception of a very slight inward curve in the middle part of its course; scales small, dingy white, with pale tawny borders; the lower not extending beyond the upper. Length of the body 2 lines; of the wings 4 lines.

a. Fayal. From Mr. Children's collection.

*ANTHOMYIA Narona*, n. s., fem. *Fusco-nigra, thorace nigro-æneo vittis quatuor albis, abdomine fusco vitta albida lateribus albidofulvis, apice ferrugineo, palpis antennis pedibusque nigris, alis subfuscis.*

Body black, adorned with a brown covering, clothed with black hairs and bristles: head adorned with white lustre; sides of the face without bristles; epistoma very slightly prominent: eyes red; fore part rather flat, its facets a little larger than those elsewhere: sucker long, black, slender, clothed at the tip with tawny hairs; palpi long, black, slender, widened at the tips, clothed with black hairs: feelers black, a little shorter than the face; third joint linear, slightly rounded at the tip, much longer than the second joint, but less than twice its length; bristle bare, much more than twice the length of the third joint, its first joint very short, the second rather long: chest with a slight brassy tinge, adorned with four broad

white stripes : abdomen whitish tawny on each side, adorned with a very broad rich brown stripe, which occupies the whole of the base, widens on the hind border of each segment, and contains a narrow whitish stripe ; tip somewhat ferruginous : legs black, clothed with black hairs and bristles ; foot-cushions pitchy : wings slightly brown ; wing-ribs ferruginous ; veins black, ferruginous towards the base ; lower cross-vein straight, with the exception of a very slight inward curve in the middle part of its course ; scales of moderate size, dingy white, with pale tawny borders, the lower not extending beyond the upper ; poisers tawny. Length of the body  $2\frac{1}{2}$  lines ; of the wings  $4\frac{1}{2}$  lines.

a. Florida. Presented by E. Doubleday, Esq.

ANTHOMYIA Donuca, n. s., mas. *Nigra, capite albo micante, thorace fulvo-cinereo subvittato, abdomine flavo-cano tessellato, palpis antennis pedibusque nigris, alis subcinereis basi subfulvis.*

Body black, clothed with black hairs and bristles : head adorned with white lustre ; sides of the face with one or two bristles at the base ; epistoma not prominent : eyes red ; fore part rather flat, its facets a little larger than those elsewhere : sucker pitchy, clothed towards the tip with tawny hairs ; palpi black, beset with black bristles : feelers black, a little shorter than the face ; third joint linear, slightly rounded at the tip, rather more than twice the length of the second joint ; bristle nearly thrice the length of the third joint, its second joint of moderate length, third joint downy, stout at the base, slender from thence to the tip : chest adorned with a gray covering, which has a very slight tawny tinge and is indistinctly striped : abdomen obconical, tessellated with yellowish hoary reflections, a little longer and narrower than the chest : legs black, clothed with black hairs and bristles ; foot-cushions dull tawny : wings pale gray, with a slight tawny tinge at the base ; wing-ribs tawny ; veins pitchy, tawny towards the base ; lower cross-vein straight ; scales rather small, white, with pale yellow borders, the lower not extending beyond the upper : poisers yellow, tawny at the base. Length of the body  $3\frac{1}{2}$  lines ; of the wings 7 lines.

a. Nova Scotia. From Lieut. Redman's collection.

ANTHOMYIA Brixia, n. s. fem. *Nigra, capite argenteo micante, thoracis vittis duabus lateribus pectoreque canis, abdominis segmentorum lateribus cano maculatis, palpis antennisque nigris, pedibus piceis, alis subfuscis.*

Body black, clothed with black hairs and bristles : front of the head adorned with bright silvery lustre, which forms a stripe on

each side of the crown, ferruginous on each side of the peristoma ; sides of the face fringed with bristles at the base ; epistoma not prominent : eyes red, slightly convex ; all the facets small : sucker pitchy, clothed with tawny hairs ; palpi black, beset with black bristles : feelers black, a little shorter than the face ; third joint linear, rounded at the tip, more than twice the length of the second ; bristle more than twice the length of the third joint, its first joint very short, second moderately long, third downy : chest adorned with two hoary stripes ; breast and sides of the chest hoary : abdomen obconical, longer and narrower than the chest ; a large square hoary spot on each side of every segment : legs dark pitchy, tinged with gray, clothed with black hairs and bristles ; knees ferruginous ; feet black ; foot-cushions tawny : wings tinged with brown ; wing-ribs tawny ; veins black, tawny towards the base ; lower cross-vein curved inward for more than half the length from the base, straight from thence to the tip ; scales white, of moderate size, the lower not extending beyond the upper ; poisers tawny. Length of the body  $3\frac{1}{2}$  lines ; of the wings 6 lines.

*a.* Nova Scotia. From Lieut. Redman's collection.

ANTHOMYIA Sergia, n. s., mas. *Nigra, thorace fusco, pectore cano, abdominis segmentorum marginibus flavo-cano maculatis, palpis antennisque nigris, pedibus nigro-cinereis, alis subfuscis.*

Body black, clothed with black hairs and black bristles : front of the head slightly tinged with gray ; sides of the face without bristles ; epistoma not prominent ; peristoma dark tawny : eyes convex, very bright red ; all the facets very small : sucker black, clothed with tawny hairs : palpi black, beset with black bristles, club-shaped : feelers black, a little shorter than the face ; third joint full thrice the length of the second, very slightly increasing in depth from the base to the tip, where it is obliquely truncated ; bristle stout for one-third of the length, very slender from thence to the tip, more than twice the length of the third joint : chest brown : breast hoary : abdomen linear, narrower and a little longer than the chest, adorned with a very large yellowish hoary spot on each side of every segment ; tip yellowish hoary : legs black, tinged with gray, clothed with black hairs and bristles ; foot-cushions tawny : wings slightly brown ; wing-ribs tawny ; veins black, tawny towards the base ; lower cross-vein slightly curved inward ; scales small, whitish ; poisers pale tawny. Length of the body  $2\frac{1}{4}$  lines ; of the wings 5 lines.

*a.* Italy. From Dr. Leach's collection.

**ANTHOMYIA** Alaba, n. s., mas. *Nigra, thorace fusco, pectore cano, abdominis segmentorum lateribus flavo-cano maculatis, pedibus nigris, tibiis piceis, alis fuscis.*

Body clothed with black hairs and long black bristles: head wanting: chest brown: breast hoary: abdomen black, narrower and much longer than the chest, adorned with a large triangular spot of yellowish hoary lustre on each side of every segment: legs black, clothed with black hairs and bristles; shanks pitchy; foot-cushions pale tawny: wings brown: wing-ribs pitchy; veins black, pitchy towards the base; lower cross-vein straight; scales small; poisers pale tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 4 lines.

a. North America. Presented by the Entomological Club.

**ANTHOMYIA** Idyla, Barnston's MSS., fem. *Nigra, thorace sub-fusco, abdomine subcinereo, palpis antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles; sides of the face without bristles; epistoma not prominent: eyes red; fore part nearly flat, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs: palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, almost truncated at the tip, about thrice the length of the second joint; bristle much more than twice the length of the third joint, rather stout towards the base: chest tinged with brown: abdomen elliptical, very slightly tinged with gray, a little longer than the chest: breast smooth, very shining: legs black, rather stout, clothed with black hairs and bristles; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; lower cross-vein with two slight curves, the lower outward, the upper inward; scales small, gray with dark tawny borders, the lower not extending beyond the upper; poisers pitchy. Length of the body 2 lines; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**ANTHOMYIA** Uxama, n. s., fem. *Nigro-cinerea, palpis antennis pedibusque nigris, alis subcinereis.*

Body black, tinged with gray, clothed with black hairs and bristles: sides of the face without bristles; epistoma hardly prominent, its edge ferruginous: eyes brassy; fore part red, rather flat, its facets larger than those elsewhere: sucker black, clothed with

tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint very deep, rounded at the tip, about thrice the length of the second; bristle downy, rather stout at the base, much more than twice the length of the third joint, its second joint long: abdomen elliptical, a little longer than the chest: legs black, clothed with black hairs and bristles: foot-cushions pitchy: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein forming a very slight inward angle in the middle part of its course; scales small, whitish with pale yellow borders; poisers pale tawny. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA* Tinia, n. s., fem. *Cana, thorace fusco trivittato, abdomine maculis nigris trigonis vittato, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis.*

Body adorned with a hoary covering, clothed with black hairs and bristles: a forked black spot succeeded by a ferruginous spot in front of the crown; sides of the face without bristles; epistoma slightly prominent, its fore side ferruginous: eyes red; fore part slightly convex, its facets a little larger than those elsewhere: sucker black, clothed towards the tip with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint linear, slightly rounded at the tip, about twice the length of the second; bristle downy, rather stout towards the base, much more than twice the length of the third joint: chest adorned with three pale brown stripes: abdomen oval, a little longer than the chest, adorned along the back with a black stripe, which forms a triangle on each segment, and is widened near the tip; fore borders of the segments black: legs black, clothed with black hairs and bristles; knees ferruginous; thighs and shanks tinged with gray; foot-cushions dark tawny: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein very indistinctly curved inward for half the length from the base, straight from thence to the tip; scales small, whitish with tawny borders, the lower not extending beyond the upper; poisers yellow, tawny at the base. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.



**ANTHOMYIA** Badia, n. s. *Cana, thorace fusco quinquevittato, abdomine tessellato, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis.*

Body black, clothed with black hairs and bristles, adorned with a hoary covering: head pale tawny in front; sides of the face without bristles; epistoma not prominent: eyes red; fore part slightly convex, its facets larger than those elsewhere: sucker black, clothed at the tip with tawny hairs: palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint about twice the length of the second, very slightly increasing in depth to the tip, which is rounded; bristle stout towards the base, very nearly thrice the length of the third joint: chest adorned with five indistinct brown stripes: abdomen spindle-shaped, a little longer and narrower than the chest, adorned with hoary reflections, very bristly towards the tip: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions tawny: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein very slightly curved inward for half the length from the base, straight from thence to the tip; scales rather small, white with pale yellow borders, the upper extending a little beyond the lower; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**ANTHOMYIA** Perrima, n. s., mas. *Cana, capite nigro albo micante, thorace fusco trivittato, abdominis maculis trigonis et segmentorum marginibus anticis nigris, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis.*

Body black, clothed with black hairs and bristles: front of the head adorned with a white lustre; sides of the face without bristles; epistoma slightly prominent: eyes red; fore part flat, its facets much larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, slightly rounded at the tip, more than twice the length of the second; bristle downy, much more than twice the length of the third joint, thick towards the base: chest and breast hoary: chest adorned with three pale brown stripes: abdomen spindle-shaped, narrower and a little longer than the chest, adorned with an irregular black stripe, which forms a triangle on each segment, and disappears towards the tip without being widened; fore borders of the segments black: legs black, clothed with black hairs and bristles; thighs and shanks slightly

tinged with gray; foot-cushions dark tawny: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein with two indistinct curves, the lower inward, the other outward; scales small, whitish with yellow borders, the lower not extending beyond the upper; poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA* Viana, n. s., fem. *Nigra, capite cano, thorace fusco vittis tribus obscurioribus, pectore fusco-cano, abdomine pallide fusco, vitta et segmentorum marginibus anticis nigris, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis.*

Body black, clothed with black hairs and bristles: head adorned with a hoary covering, yellowish brown on the crown, with the exception of a large black spot, which sends forth four rays behind, and is succeeded in front by a ferruginous spot at the base of the feelers; sides of the face without bristles; epistoma not prominent: eyes dark red, convex; all the facets very small; sucker black, clothed with tawny hairs at the tip; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint full twice the length of the second, almost truncated at the tip; bristle downy, rather stout towards the base, much more than twice the length of the third joint: chest light brown, adorned with three indistinct darker stripes; breast brownish hoary: abdomen pale brown, with a hoary tinge, slightly tessellated, elliptical, not longer than the chest, adorned with a black stripe; fore borders of the segments black: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions pitchy: wings slightly gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein with a very slight inward curve in the middle part of its course; scales whitish, with yellow borders, small, the lower not extending beyond the upper; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*ANTHOMYIA* Acra, n. s., fem. *Nigro-cinerea, palpis antennisque nigris, pedibus nigro-cinereis, alis subcinereis.*

Body black, clothed with black hairs and bristles, slightly tinged with gray: sides of the face without bristles; epistoma hardly prominent, ferruginous on the fore side: eyes brassy; fore part red, rather flat, composed of larger facets than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with

black bristles: feelers black, shorter than the face; third joint flat above, convex beneath, obliquely truncated at the tip, full twice the length of the second joint; bristle downy, rather thick towards the base, much more than twice the length of the third joint: abdomen elliptical, a little longer than the chest: legs black, clothed with black hairs and bristles; thighs and shanks slightly tinged with gray; foot-cushions tawny: wings pale gray; wing-ribs tawny; veins black, tawny at the base; lower cross-vein straight at the base, slightly curved inward from thence to the tip; scales rather small, grayish with pale yellow borders, the lower hardly extending beyond the upper; poisers yellow. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ANTHOMYIA* *ISURA*, n. s., fem. *Cana, thorace vittis tribus fuscis, abdomine basi fulvo, palpis antennis tursisque nigris, femoribus nigro-cinereis, tibiis piceis, alis subcinereis.*

Body black, clothed with black hairs and bristles, adorned with a hoary covering; a slightly fawn-coloured stripe extends from the feelers, and afterwards dividing, encloses a triangular space about the eyelets; sides of the face beset with two or three bristles at the base: epistoma not prominent: eyes red; fore part rather flat, its facets larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint flat above, slightly convex beneath, truncated at the tip, nearly thrice the length of the second; bristle downy, stout towards the base, much more than twice the length of the third joint, its second joint rather long: chest adorned with three indistinct pale brown stripes: abdomen obconical, tawny at the base, longer than the chest: legs black, clothed with black hairs and bristles; thighs tinged with gray; knees ferruginous; shanks pitchy; wings very slightly tinged with gray; wing-ribs and veins tawny, the latter pitchy towards the tips; lower cross-vein straight from the base to half the length, whence it is very slightly curved inward to the tip; scales rather small, white with pale yellow borders, the lower hardly extending beyond the upper; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**ANTHOMYIA** Canache, n. s., fem. *Nigra, abdomine croceo, segmentorum marginibus posticis nigris, palpis antennis pedibusque nigris, alis limpidis.*

Body black, clothed with black hairs and bristles: head tinged with gray; sides of the face without bristles; epistoma not prominent: eyes black; fore part rather flat, its facets larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, rather deep, slightly rounded at the tip, about thrice the length of the second joint; bristle full twice the length of the third joint: abdomen oval, orange, not longer than the chest; hind borders of the segments black: legs black, clothed with black hairs and bristles; knees ferruginous; shanks pitchy towards the base: wings colourless; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein straight, slightly curved upward at the tip; scales white, with yellow borders, the lower extending beyond the upper. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Egypt. Presented by Sir Gardner Wilkinson.

**ANTHOMYIA** Corelia, n. s., mas. *Fusca, thorace vittis tribus obscurioribus, abdomine nigro vittato, palpis antennis pedibusque nigris, alis subfuscis.*

Body black, with a brown covering, clothed with black hairs and bristles: head adorned with yellowish white lustre; sides of the face without bristles; epistoma very slightly prominent: eyes red; fore part nearly flat, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, much shorter than the face, third joint nearly linear, rather deep, rounded at the tip, much longer than the second, but less than twice its length; bristle black, more than thrice the length of the third joint, its first joint very short, second long, third stout and downy at the base, slender from thence to the tip: chest pale brown, with three dark brown stripes: hind scutcheon hoary: abdomen obconical, a little longer and narrower than the chest, adorned with black stripes, which disappear towards the tip: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly brown; wing-ribs pitchy; veins black, pitchy towards the base; tip cross-vein with two curves, the lower inward, much more distinct than the other which is outward; scales small, pale tawny with darker borders, the lower not appearing beyond the

upper; poisers tawny. Length of the body  $1\frac{1}{2}$  lines; of the wings 4 lines.

a. Monte Video. Presented by C. Darwin, Esq.

*ANTHOMYIA* Cutilia, n. s., fem. *Cyanea*, abdomine purpurascente, palpis antennis pedibusque nigris, alis subcinereis.

Body dark blue, clothed with black hairs and bristles: front of the head adorned with white lustre; sides of the face without bristles; epistoma not prominent: eyes pitchy; fore part rather flat; all the facets very small: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, shorter than the face; third joint linear, rather deep, rounded at the tip, much longer than the second, but less than twice its length; bristle bare, full thrice the length of the third joint: abdomen bright purplish blue, oval, a little broader but hardly longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs and veins black; lower cross-vein straight at each end, curved inward in the middle part of its course; scales small, dark gray, with pitchy borders, the lower not extending beyond the upper; poisers pitchy. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Monte Video. Presented by C. Darwin, Esq.

*ANTHOMYIA* determinata, n. s. *Nigro-cinerea*, capite pectore abdomineque cunis, abdominis apice piceo, palpis antennis pedibusque nigris, tibiis piceis, alis fusco-subcinereis.

Body black, clothed with black hairs and bristles: head adorned with hoary lustre, with the exception of a nearly triangular black spot on each side of the crown near the base of the feelers; sides of the face without bristles; epistoma very prominent: eyes brassy red; fore part flat, its facets small, but a little larger than those elsewhere: sucker black, clothed with black hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face, resembling those of the first division of *Tachina*; third joint nearly round, hardly longer than deep, a little longer than the second; bristle more than twice the length of the third joint, its first joint short, second rather long, third very stout for one-third of the length from the base, slender from thence to the tip: chest tinged with gray: breast hoary: abdomen oval, a little longer than the chest, adorned with a hoary covering, somewhat pitchy towards the tip: legs black, clothed with black hairs and bristles; shanks pitchy; foot-cushions dark tawny: wings pale gray, with a slight

brown tinge; wing-ribs dark tawny; veins black, dark tawny towards the base; lower cross-vein straight, with the exception of a slight inward curve in the middle part of its course; scales white, large, the upper extending a little beyond the lower; poisers tawny. Length of the body 2 lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

ANTHOMYIA Felsina, n. s., mas. *Cinereo-fulva, palpis pedibusque nigris, antennis piceis, alis cinereis.*

Body black, tinged with grayish tawny, clothed with black hairs and bristles: sides of the face without bristles; epistoma not prominent: eyes pitchy; fore part rather flat, its facets larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers pitchy, shorter than the face; third joint linear, rather deep, slightly rounded at the tip, more than twice the length of the second joint; bristle black, bare, more than twice the length of the third joint: abdomen elliptical, a little longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings gray; wing-ribs pitchy; veins black, pitchy at the base; tip cross-vein with two curves, the lower inward, deeper than the other which is outward; cross-veins clouded with brown; scales dull pale tawny, with brown borders, the lower extending far beyond the upper; poisers dark tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a, Monte Video. Presented by C. Darwin, Esq.

ANTHOMYIA personata, n. s., mas. *Nigra, capite antice albo, abdomine purpureo-cyaneo, albo micante, palpis antennis pedibusque nigris, alis limpidis.*

Body black, thickly clothed with black hairs and bristles: front of the head adorned with white lustre; sides of the face without bristles; epistoma very slightly prominent, adorned with a ferruginous spot on each side: eyes dark red; fore part rather flat, its facets larger than those elsewhere: sucker black, clothed with dark tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint linear, almost truncated at the tip, more than twice the length of the second; bristle slender, rather more than twice the length of the third joint, its second joint of moderate length, third stout at the base: abdomen dark blue, tinged with purple, adorned with white reflections towards the tip, not longer than the chest: legs black, clothed with black hairs and bristles; hind shanks beset with a fringe of long black bristles; foot-cushions dark tawny: wings colourless; wing-ribs pitchy; veins

black; second and third longitudinal veins very slightly inclined towards each other near the tips; lower cross-vein with two very indistinct curves, the lower inward, the other outward; scales with pitchy borders, the upper extending beyond the lower. Length of the body 2 lines; of the wings 5 lines. Allied to *Musca*.

a. New Holland. Presented by the Entomological Club.

*ANTHOMYIA* Setia, n. s., fem. *Nigra, palpis antennisque ferrugineis, pedibus nigris, alis limpidis, basi nervorumque marginibus subfulvis.*

Body black, shining, clothed with black hairs and bristles: sides of the face without bristles; epistoma not prominent: eyes brassy; fore part red, rather flat, its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi ferruginous, beset with black bristles: feelers pale ferruginous, a little shorter than the face; third joint dark, linear, slightly rounded at the tip, nearly thrice the length of the second; bristle black, slender, bare, rather stout at the base, more than twice the length of the third joint: legs black, clothed with black hairs and bristles; knees dark ferruginous; foot-cushions pitchy: wings colourless, slightly tawny at the base and along the borders of the veins; wing-ribs tawny; veins black, tawny at the base; lower cross-vein with two very slight curves, the upper inward, the lower outward; tips of the second and third longitudinal veins slightly inclined towards each other; scales rather small, white with yellow borders, the lower not extending beyond the upper. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. Galapagos. Presented by C. Darwin, Esq.

*ANTHOMYIA* Opalia, n. s., mas. et fem. *Nigro-cyanea, capite albomicante, antennis picetis seta basi pubescente, palpis pedibusque nigris, alis limpidis.*

Body clothed with black hairs and bristles: head covered with white lustre; sides of the peristoma fringed with bristles; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes red: fore part flat, its facets much larger than those elsewhere: sucker black, clothed at the tip with tawny hairs; palpi black, beset with black bristles: feelers pitchy; third joint linear, rounded at the tip, thrice the length of the second; bristle downy at the base, much more than twice the length of the third joint: chest and abdomen bluish black, shining; abdomen elliptical, not longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings colourless; wing-ribs tawny;

veins black, tawny towards the base; tip cross-vein slightly curved inward along the whole length; scales white, with yellow borders, the lower extending far beyond the upper; poisers tawny. Length of the body  $2\frac{3}{4}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

ANTHOMYIA ruficeps? *Meig. Dipt.* v. 177, 162.

a. ———?

ANTHOMYIA decolor, *Meig. Dipt.* v. 198, 201. *Musca decolor?*  
*Fall. Musc.* 68, 70. *Anthomyza decolor?* *Zett. Ins. Lapp.*  
679, 81. *Aricia decolor*, *Zett. Ins. Lapp.* iv. 1525, 136.

a. England.

ANTHOMYIA cinerea? *Meig. Dipt.* v. 199, 203. *Musca flavicans?*  
*Panz. Faun. Germ.* 54, 18. *M. cinerea?* *Fall. Musc.* 70, 75.  
*M. floralis*, *Fall. Musc.* 71, 76. *Anthomyza cinerea?* *Zett.*  
*Ins. Lapp.* 671, 41.

a. England.

ANTHOMYIA parvula? *Meig. Dipt.* v. 200, 205. *Musca parvula?*  
*Fall. Musc.* 75, 85. *Aricia parvula*, *Zett. Dipt. Scand.* iv.  
1604, 219.

a. England.

ANTHOMYIA serena? *Meig. Dipt.* v. 200, 206. *Musca serena?*  
*Fall. Musc.* 76, 88. *Anthomyza serena*, *Zett. Ins. Lapp.* 685,  
108. *Dipt. Scand.* iv. 1594, 208.

a. England.

ANTHOMYIA sulciventris? *Aricia sulciventris?* *Zett. Dipt. Scand.*  
iv. 1451, 62.

a. England.

ANTHOMYIA ———?

a. Haparanda. Presented by the Entomological Club.

ANTHOMYIA ———?

a. Stockholm. Presented by the Entomological Club.

ANTHOMYIA ———?

a. Upsal. Presented by the Entomological Club.

ANTHOMYIA ———?

a. ———? From Mr. Children's collection.



ANTHOMYIA ——— ?

a. ——— ? From Mr. Children's collection.

ANTHOMYIA ——— ?

a. England.

ANTHOMYIA ——— ?

a. England.

ANTHOMYIA ——— ?

a. England.

ANTHOMYIA ——— ?

a. England.

ANTHOMYIA ——— ?

a. England.

ANTHOMYIA ——— ?

a. England.

ANTHOMYIA ——— ?

a. France.

b. *Legs yellow. Eyes not hairy.*

ANTHOMYIA *setaria* ? *Wied. Meig. Dipt. v. 178, 165.*

a. England.

ANTHOMYIA *Megerlei* ? *Meig. Dipt. v. 179, 166.*

a. England.

ANTHOMYIA *Winthemi* ? *Meig. Dipt. v. 186, 179, vii. 328, 88. Anthomyza Winthemi ? Zett. Dipt. Scand. v. 1792, 177.*

a. England.

ANTHOMYIA *solennis* ? *Meig. Dipt. v. 187, 180.*

a. England.

ANTHOMYIA *varia*, *Meig. Dipt. v. 187, 182. Cænusia varia, Macq. Hist. Nat. Dipt. ii. 349, 26.*

a. England.

ANTHOMYIA *temperata* ? *Meig. Dipt. v. 188, 183.*

a. England.

ANTHOMYIA diaphana, *Wied. Zool. Mag.* i. 81, 31. *Meig. Dipt.* v. 189, 185, vii. 328, 95. *Musca diaphana*, *Fall. Musc.* 92, 130. *Pegomyia diaphana*, *Macq. Hist. Nat. Dipt.* ii. 353, 15. *Anthomyza diaphana*, *Zett. Dipt. Scand.* iv. 1786, 170.

a. England.

ANTHOMYIA ornata? *Meig. Dipt.* v. 191, 188.

a. England.

ANTHOMYIA pruinosa? *Meig. Dipt.* v. 191, 189.

a. England.

ANTHOMYIA calceata? *Megerle, Meig. Dipt.* v. 192, 190.

a. England.

ANTHOMYIA socia? *Meig. Dipt.* v. 201, 208. *Musca socia*? *Fall. Musc.* 82, 104. *Anthomyza socia*? *Zett. Dipt. Scand.* iv. 1680, 48.

a. England.

ANTHOMYIA brunneilinea? *Aricia brunneilinea*, *Zett. Dipt. Scand.* iv. 1448, 58.

a. England.

ANTHOMYIA frontata? *Aricia frontata*? *Zett. Dipt. Scand.* iv. 1453, 64. *Anthomyza frontata*? *Zett. Ins. Lapp.* 669, 35.

a. England.

ANTHOMYIA didyma? *Aricia didyma*? *Zett. Dipt. Scand.* iv. 1461, 72. *Anthomyza didyma*? *Zett. Ins. Lapp.* 683, 100.

a. England.

ANTHOMYIA Daicles, n. s. *Nigro-cinerea, thorace vittis tribus obscurioribus, abdomine cervino, pedibus fulvis, tarsis nigris, alis subcinereis basi subfulvis.*

Body black, clothed with black hairs and bristles: front of the head adorned with white lustre; crown yellowish brown, adorned with two black stripes, which unite towards the base of the feelers; sides of the face without bristles; epistoma hardly prominent: eyes red; facets of the fore part a little larger than those elsewhere: sucker pitchy, clothed with dark tawny hairs; palpi black, beset with black bristles: feelers black, as long as the face; third joint slightly tinged with gray, more than twice the length of the second, very slightly concave above and equally convex beneath, rounded at the tip; bristle much more than twice the length of the third joint, its second joint rather short, third stout at the base, downy to

the tip: chest gray, with three indistinct darker stripes: breast paler gray: abdomen elliptical, fawn-coloured, a little longer and broader than the chest: legs tawny, clothed with black hairs and bristles; feet black; foot-cushions pale tawny: wings very pale gray, tinged with tawny at the base, and more slightly so along the borders of the veins; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein clouded with brown, having three very indistinct curves, the first and the third outward, the middle one inward; scales rather large, pale gray with tawny borders, the lower extending much beyond the upper; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

- a. Haparanda. Presented by the Entomological Club.
- b. Isle of Sorøe. Presented by F. Walker, Esq.
- c. Hammerfest. Presented by F. Walker, Esq.

*ANTHOMYIA Mervinia*, n. s., mas. *Nigra, capite cano, thorace fasciis duabus flavis, abdomine flavo, segmentorum marginibus posticis fuscis, palpis nigris antennis piceis, pedibus fulvis, alis subfulvis.*

Body black, clothed with black hairs and bristles: head adorned with a hoary covering; sides of the face without bristles; epistoma slightly prominent: eyes red; fore part rather flat, its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers pitchy, a little shorter than the face; third joint linear, rounded at the tip, nearly thrice the length of the second; bristle black, bare, more than twice the length of the third joint: chest adorned with two broad pale yellow bands: abdomen yellow, oval, a little broader but not longer than the chest; hind borders of the segments brown: legs tawny, clothed with black hairs and bristles: wings rather short, with a very slight tawny tinge; wing-ribs tawny; veins black, tawny at the base; lower cross-vein straight, very oblique, distant by its length from the middle cross-vein; scales large, white with tawny borders, the lower extending far beyond the upper. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

- a. Sierra Leone. Presented by the Rev. D. F. Morgan.

### DRYMEIA, Meigen.

*DRYMEIA obscura*, Meig. *Dipt.* v. 234, 1. Desv. ~~Fall.~~ *Myod.* 561.  
1. Macq. *Hist. Nat. Dipt.* ii. 322, 1. *Musca hamata*, Fall.  
*Musc.* 57.

- a. England.

## ERIPHIA, Meigen.

ERIPHIA Arelate, n. s., mas. *Nigra, palpis antennis pedibusque nigris, alis nigro-cinereis basi subfuscis.*

Body black, clothed with black hairs and bristles, which latter are very thick towards the tip of the abdomen: sides of the face without bristles; epistoma slightly prominent; eyes red, having a narrow space between them on the crown; fore part nearly flat, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint tapering from the base to the tip, where it is truncated, much longer than the second, but not twice its length; bristle bare, very stout near the base, very slender from thence to the tip, about thrice the length of the third joint, its first joint very short, second long: abdomen obconical, longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings dark gray, tinged with brown at the base and along the borders of the veins; wing-ribs and veins black; lower cross-vein straight, with the exception of a slight inward curve in the middle part of its course; scales rather small, dingy white with yellow borders, the lower not extending beyond the upper; poisers ferruginous. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ERIPHIA ciliata, Barnston's MSS., mas. *Nigra, capite antico argenteo, palpis antennis pedibusque nigris, alis nigro-cinereis basi fuscis.*

Body black, very thickly clothed with black hairs and bristles: front of the head adorned with bright silvery lustre; sides of the face without bristles; epistoma prominent: eyes red; fore part rather flat, its facets larger than those elsewhere: sucker black, clothed with dark tawny hairs; palpi black, beset with black bristles: feelers black, much shorter than the face; third joint not longer than the second, convex above, straight beneath, obliquely truncated at the tip: abdomen slightly tapering from the base to the tip, very hairy on each side, longer and narrower than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings dark gray, brown at the base; wing-ribs and veins black; lower cross-vein nearly straight; scales small, tinged with gray, their borders pale yellow, the upper extending a

little beyond the lower; poisers pitchy. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERIPHIA grisea*, Barnston's MSS., mas. *Nigro-cinerea*, *capite antice argenteo*, *thoracis lateribus albo vittatis*, *abdomine cano subtessellato*, *palpis antennisque nigris*, *pedibus nigro-cinereis*, *alis subcinereis*.

Body black, clothed with black hairs and bristles: head ferruginous on each side of the peristoma; front adorned with white lustre: sides of the face without bristles; epistoma not prominent: eyes dark red; fore part slightly convex, its facets larger than those elsewhere: sucker black, clothed with a few tawny hairs; palpi black, slender, beset with black bristles: feelers black, a little shorter than the face; third joint full twice the length of the second, slightly decreasing in depth from the base to the tip, which is rounded; bristle stout at the base, clothed nearly to the tip with very short black hairs, nearly thrice the length of the third joint: chest and breast tinged with dark gray; each side adorned with a white stripe: abdomen obconical, longer and narrower than the chest, slightly tessellated with hoary reflections, which are mostly on each side: legs black, clothed with black hairs and bristles, slightly tinged with gray; foot-cushions pitchy: wings pale gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein slightly curved inward along half the length, nearly straight from thence to the tip; scales whitish, with pale yellow borders, the upper extending a little beyond the lower; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERIPHIA* ? *Acela*, n. s., fem. *Nigra*, *capite subtus cano*, *thorace cano*, *quadrivittato*, *pectore cinereo*, *abdominis lateribus cano maculatis*, *palpis antennisque nigris*, *pedibus nigro-cinereis*, *alis cinereis*.

Body black, rather broad, thickly clothed with black hairs and bristles: head hoary beneath; front tinged with gray; sides of the face fringed with bristles at the base; epistoma prominent: eyes red; fore part nearly flat, its facets larger than those elsewhere: sucker black, long, clothed at the tip with tawny hairs; palpi long, black, slender, beset with black bristles: feelers black, nearly as long as the face; third joint deep, linear, almost truncated at the tip,

much longer than the second joint; bristle downy, much more than twice the length of the third joint, stout towards the base, its second joint rather long: chest adorned with four irregularly hoary stripes; breast gray: abdomen elliptical, rather flat, adorned above with a very large hoary spot on each side of every segment, hoary beneath and at the tip, a little shorter and broader than the chest: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions tawny: wings gray; wing-ribs pitchy; veins black, pitchy at the base; lower cross-vein straight for one-third of the length from the base, very slightly curved inward from thence to the tip; scales pale yellow, very small; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERIPHIA biquadrata*, Barnston's MSS., mas. *Nigra, abdomine cano maculis quatuor nigris, palpis antennisque nigris, pedibus nigro-cinereis, alis nigro-fuscis.*

Body black, clothed with black hairs and bristles: face gray, its sides fringed with bristles at the base; epistoma not prominent: eyes red; fore part slightly convex, its facets a little larger than those elsewhere; sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, shorter than the face; third joint a little more than twice the length of the second, flat above, slightly convex beneath, somewhat rounded at the tip; bristle bare, slender, rather stout at the base, much more than twice the length of the third joint: abdomen obconical, hoary, adorned with four very large square black spots on the first and the second segments, as broad as the chest and a little longer: legs black, slightly tinged with gray; foot-cushions dark tawny: wings dark brown; wing-ribs ferruginous; veins black; lower cross-vein very nearly straight, but having an indistinct tendency to the two usual curves; scales pale brown, rather large, the lower extending beyond the upper; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERIPHIA lata*, Barnston's MSS., fem. *Nigra, palpis antennis pedibusque nigris, alis subcinereis.*

Body black, clothed with black hairs and bristles: sides of the face without bristles; epistoma not prominent: eyes red; fore part

slightly convex, its facets a little larger than those elsewhere: sucker black, clothed towards the tip with dark tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; third joint linear, truncated at the tip, much longer than the second: abdomen elliptical, a little longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly gray; wing-ribs pitchy; veins black, pitchy at the base; lower cross-vein with a slight inward curve near the tip, and a more slight outward curve near the base; scales of moderate size, gray with dull tawny borders, the lower extending beyond the upper; poisers black. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERIPHIA* Lamnia, n. s., mas. *Nigra, abdomine cinereo vitta interrupta nigra, palpis antennis pedibusque nigris, alis cinereis.*

Body black, thickly clothed with black hairs and bristles: sides of the face fringed with bristles at the base; epistoma prominent: eyes red; fore part rather flat, its facets rather larger than those elsewhere: sucker black, clothed with tawny hairs: palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint almost round, hardly longer than deep, a little longer than the second; bristle bare, much more than twice the length of the third joint, very stout for one-third of the length, slender from thence to the tip: abdomen obconical, gray with an interrupted black stripe, very thickly beset with bristles, narrower but not longer than the chest; sutures of the segments black: legs black, clothed with black hairs and bristles; foot-cushions pale tawny: wings gray; wing-ribs and veins black; lower cross-vein with a very indistinct inward curve; scales small, white with pale yellow borders, the upper extending a little beyond the lower; poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERIPHIA* marginata, Barnston's MSS. *Nigro-cinerea, capite ferrugineo fulvoque vario, abdomine cano. segmentorum marginibus anticis nigris, palpis antennisque nigris, pedibus nigro-cinereis, alis cinereis.*

Body black, clothed with black hairs and bristles: head adorned with a ferruginous spot in front of the crown at the base of the feelers, and with a tawny stripe on each side of the crown and

of the face; sides of the face without bristles; epistoma prominent, ferruginous on the fore side: eyes red, convex; all the facets very small: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint flat above, convex beneath, obliquely truncated at the tip, more than twice the length of the second joint; bristle bare: chest and breast slightly tinged with gray: abdomen elliptical, a little longer than the chest, adorned with a hoary covering, which has a slight tawny tinge; fore borders of the segments black: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; foot-cushions dark tawny: wings gray; wing-ribs tawny; veins black, tawny at the base; lower cross-vein slightly curved inward; scales very small, white with pale yellow borders; poisers pale tawny. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*ERIPHIA pretiosa*, Barnston's MSS. *Nigro-ænea*, *capite antico cinereo*, *palpis antennis pedibusque nigris*, *alis nigro-fuscis*.

Body black, clothed with black hairs and bristles: head adorned with a dark gray stripe, which widens from the crown to the base of the feelers; a little gray stripe on each side of the feelers; face and underside of the head gray; sides of the face fringed with bristles at the base; epistoma not prominent: eyes dark red; fore part flat, its facets larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint longer than the second, slightly increasing in depth from the base to the tip, which is somewhat truncated; bristle bare, rather more than twice the length of the third joint, stout at the base: chest and abdomen with a very slight brassy tinge: abdomen obconical, hardly longer than the chest: legs black, clothed with black hairs and bristles; foot-cushions tawny: wings dark brown; wing-ribs and veins black; lower cross-vein nearly straight, but with a very indistinct tendency to two curves, the lower inward, the other outward; scales small, gray with tawny borders, the upper extending a little beyond the lower; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.



*ERIPHIA flavifrons*, Barnston's MSS., fem. *Nigro-cinerea*, capite ferrugineo, ventre flavo, palpis antennis pedibusque nigris, tibiis fulvis, alis subcinereis.

Body black, clothed with black hairs and bristles: head bright ferruginous on each side and in front of the crown, and on the sides of the face and of the peristoma; sides of the face without bristles; epistoma not prominent: eyes black, convex; facets of the fore part a little larger than those elsewhere: sucker and palpi black, tawny at the base; sucker clothed with tawny hairs; palpi beset with black bristles: feelers black, nearly as long as the face; third joint rather deep, nearly linear, slightly rounded at the tip, more than twice the length of the second; bristle bare, rather stout at the base, much more than twice the length of the third joint: chest, breast and abdomen gray: abdomen oval, a little longer than the chest; under side pale yellow, with a narrow gray stripe: legs black, clothed with black hairs and bristles; hips and thighs tinged with gray; shanks tawny with dark tips: wings slightly gray; wing-ribs tawny; veins black, tawny at the base; lower cross-vein very slightly curved inward; scales rather small, white with pale yellow borders, the lower extending very little beyond the upper; poisers pale tawny. Length of the body  $2\frac{1}{4}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

#### DIALYTA, Meigen.

*DIALYTA?* cupreifrons, Barnston's MSS., fem. *Nigro-cinerea*, thorace antico fusco bivittato, pedibus nigro-cinereis, genubus ferrugineis, alis cinereis.

Body black, clothed with black hairs and bristles: head wanting: chest, breast and abdomen tinged with gray: fore part of the chest adorned with three pale brown stripes: abdomen oval, a little longer than the chest: legs black, clothed with black hairs and bristles; thighs and shanks slightly tinged with gray; knees dark ferruginous; foot-cushions tawny: wings gray; wing-ribs tawny; veins black, tawny at the base; lower cross-vein straight; scales small, white with pale yellow borders, the upper extending a little beyond the lower; poisers tawny. Length of the body  $2\frac{1}{4}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

## CÆNOSIA, Meigen.

## A. Feeler-bristle hairy.

CÆNOSIA fungorum, Meig. Dipt. v. 211, 1. Musca fungorum, Deg. Ins. vi. 42, 18, pl. 5, f. 1—7. Fall. Musc. 89, 121.

a. England.

CÆNOSIA tigrina, Meig. Dipt. v. 212, 2. Macq. Hist. Nat. Dipt. ii. 344, 1. Musca tigrina, Fabr. Sp. Ins. ii. 444, 42. Ent. Syst. iv. 322, 42. Syst. Antl. 297, 66. Turt. iii. 602. M. rapax, Stew. El. ii. 260. M. quadrum, Fall. Musc. 80, 99. Caricea communis, Desv. Essai Myod. 531, 2. Anthomyza tigrina? Zett. Dipt. Scand. iv. 1712, 89.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. France.

CÆNOSIA Alete, n. s., fem. Nigro-cinerea, capite cano, abdominis segmentorum marginibus posticis fulvis, palpis fulvis, antennis pedibusque nigris, femoribus apice tibiisque basi fulvis, alis cinereis.

Body black, rather narrow: head hoary; epistoma not prominent; crown black; sides of the face without bristles: eyes bright red; fore part flat, its facets much larger than those elsewhere: sucker black, clothed at the tip with a few tawny hairs; palpi tawny, club-shaped, clothed with short black hairs: feelers black, nearly as long as the face; third joint about thrice the length of the second, linear, rounded at the tip; bristle nearly twice the length of the third joint, deeply feathered, stout near the base, very slender towards the tip: chest and abdomen slightly tinged with bluish gray: abdomen nearly cylindrical, a little longer than the chest; hind borders of the segments tawny: legs black, stout, clothed with black hairs and bristles; tips of the thighs and shanks towards the base tawny: wings gray, rather narrow; wing-ribs and veins black; tip cross-vein straight; third longitudinal vein very slightly curved outward near the tip, which joins the border at the tip of the wing; scales white, with yellow borders, rather large, the lower twice the length of the upper; poisers tawny. Length of the body 3 lines; of the wings 5 lines.

a. Egypt. Presented by Sir Gardner Wilkinson.

CÆNOSIA spinosa, Barnston's MSS., fem. Cinerea, capite cano, palpis antennisque nigris, articulo 2<sup>o</sup> apice ferrugineo, pedibus fulvis, alis limpidis.

Body black, with a gray covering, clothed with black hairs and bristles: head adorned with a hoary covering, which has a tawny

tinge above: eyes red; fore part rather flat, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, nearly as long as the face; second joint ferruginous at the tip; third joint linear, about four times the length of the second, truncated at the tip; first joint of the bristle very short; second joint long; third joint about thrice the length of the second, feathered with very short hairs from the base to the tip: sides of the face without bristles; epistoma not prominent: abdomen obconical, very much longer than the chest: legs tawny, clothed with black hairs and bristles; claws pitchy, hairy; foot-cushions pale tawny: wings colourless; wing-ribs and veins tawny; lower cross-vein with two very slight curves, which occupy half the length from the base, the lower outward, the upper inward; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**\*\* B. Feeler-bristle not hairy.**

*CENOSIA nemoralis*, Meig. *Dipt.* v. 212, 3, pl. 45, f. 9. Macq. *Hist. Nat. Dipt.* ii. 345, 6.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

*CENOSIA intermedia*? Meig. *Dipt.* v. 214, 7. *Musca intermedia*? Fall. *Musc.* 87, 115. *Anthomyza intermedia*? Zett. *Ins. Lapp.* 693, 140. *Dipt. Scand.* iv. 1723, 102.

a. Haparanda. Presented by the Entomological Club.

*CENOSIA murina*? Meig. *Dipt.* v. 215, 8. Var.? *C. 6-notata*, Meig. *Dipt.* v. 213, 5. Macq. *Hist. Nat. Dipt.* ii. 346, 8. *Anthomyza 6-notata*? Zett. *Ins. Lapp.* 694, 146. *Dipt. Scand.* iv. 1718, 96.

a. Haparanda. Presented by the Entomological Club.

*CENOSIA nigrimana*, Meig. *Dipt.* v. 215, 9. *Anthomyza nigrifemur*? Zett. *Dipt. Scand.* iv. 1732, 112.

a. Haparanda. Presented by the Entomological Club.

*CENOSIA means*? Meig. *Dipt.* v. 216, 10. Macq. *Hist. Nat. Dipt.* ii. 346, 10. *Limosia paludosa*? Desv. *Essai Myod.* 539, 15. *Anthomyza means*? Zett. *Ins. Lapp.* 695, 150. *Dipt. Scand.* iv. 1725, 105.

a. Haparanda. Presented by the Entomological Club.

*CÆNOSIA nigra?* *Meig. Dipt.* v. 216, 12.

a. Haparanda. Presented by the Entomological Club.

*CÆNOSIA decipiens?* *Wied. Meig. Dipt.* v. 218, 17. *Macq. Hist. Nat. Dipt.* ii. 347, 14. *Limosia scirporum?* *Desv. Essai Myod.* 536, 1. *L. rivularis*, *Desv. Essai Myod.* 538, 11. *Anthomyza decipiens*, *Zett. Dipt. Scand.* iv. 1735, 116.

a. Haparanda. Presented by the Entomological Club.

b. Kollare, Lapland. Presented by the Entomological Club.

c. Upsal. Presented by the Entomological Club.

d. Alten. Presented by F. Walker, Esq.

*CÆNOSIA perpusilla*, *Meig. Dipt.* v. 218, 18. *Macq. Hist. Nat. Dipt.* ii. 347, 15. *Iamosia littoralis?* *Desv. Essai Myod.* 538, 12.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*CÆNOSIA meditata?* *Meig. Dipt.* vi. 219, 19. *Musca meditata?* *Fall. Musc.* 87, 114. *Anthomyza meditata?* *Zett. Ins. Lapp.* 692, 139. *Dipt. Scand.* iv. 1715, 92.

a. Haparanda. Presented by the Entomological Club.

*CÆNOSIA geniculata?* *Meig. Dipt.* v. 219, 20, *pl.* 45, *f.* 10, *Macq. Hist. Nat. Dipt.* ii. 347, 16. *Musca geniculata?* *Fall. Musc.* 89, 120. *Anthomyza geniculata?* *Zett. Ins. Lapp.* 694, 145. *Dipt. Scand.* iv. 1720, 918.

a. Lapland. Presented by the Entomological Club.

*CÆNOSIA humilis*, *Meig. Dipt.* v. 220, 23. *Anthomyza humilis?* *Zett. Dipt. Scand.* iv. 1732, 113.

a. Aix-la-Chapelle. Presented by the Entomological Club.

*CÆNOSIA monilis*, *Meig. Dipt.* v. 222, 27. *Macq. Hist. Nat. Dipt.* ii. 346, 11.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*CÆNOSIA myopina*, *Meig. Dipt.* v. 222, 28. *Musca myopina*, *Fall. Musc.* 65, 66.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*CÆNOSIA spinipes*, *White, Zool. Voy. Erebus and Terror*, *mas. Cinerea, capite fulvo, abdomine fusco trivittato, abdominis maculis sex trigonis canis ornato, palpis fulvis, antennis nigris, articulo 2º ferrugineo, pedibus fulvis, tarsis nigris, alis cinereis.*

Body thinly clothed with black hairs and bristles: head bright tawny; sides of the face without bristles; epistoma not prominent:

eyes red; fore part rather flat, its facets much larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers deep black, shorter than the face; third joint linear, slender, rounded at the tip, about thrice the length of the second, which is dark ferruginous; bristle black, slender, downy, rather stout for one-third of the length from the base, full twice the length of the third joint: chest and breast gray: disk of the chest with a tawny tinge, adorned with three slender brown stripes: abdomen gray, spindle-shaped, adorned with a large triangular hoary spot on each side of the fore border of every segment, ferruginous at the tip beneath, longer and a little narrower than the chest: legs dark tawny, clothed with black hairs and bristles; feet black, tawny towards the base; claws black; foot-cushions pale tawny: wings gray; cross-veins clouded with brown; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein almost straight, slightly oblique, separated by more than its length from the middle cross-vein, which is stouter and more oblique; scales of moderate size, whitish with pale yellow borders, the lower extending beyond the upper; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. New Zealand.

*CÆNOSIA sex-maculata*, Barnston's MSS., fem. *Nigro-cinerea*, capite antico albo micante, thorace fusco trivittato, abdomine fusco sex-maculato, palpis fulvis, antennis piceis, pedibus nigro-cinereis, tibiis fulvis, tarsis piceis, alis subcinereis basi fulvis.

Body black, clothed with black hairs and bristles: head adorned with white lustre in front, beneath, and on each side of the crown; a ferruginous stripe tapering from the eyelets to the base of the feelers; sides of the face without bristles; epistoma not prominent: eyes red; a small space of the fore part flat, and composed of much larger facets than those elsewhere: sucker black, pitchy and clothed with tawny hairs at the tip; palpi pale tawny, beset with black bristles: feelers pitchy, shorter than the face; third joint linear, rounded at the tip, more than twice the length of the second; first and second joints ferruginous; bristle black, bare, much more than twice the length of the third joint: chest and breast gray: chest adorned with three brown stripes: abdomen gray, elliptical, longer than the chest, adorned with three dark brown spots on each side: legs clothed with black hairs and bristles; hips and thighs black, tinged with gray; shanks tawny; feet pitchy; claws black; foot-cushions dark tawny: wings slightly gray, tawny at the base: wing-ribs tawny; veins black, tawny at the base; cross-vein nearly straight, far from the border; scales rather large, white with pale

yellow borders, the lower extending beyond the upper; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CÆNOSIA substituta*, n. s., mas. *Cana, capite albo, abdomine cervino, palpis nigris, pedibus fulvis, tarsis nigris, alis albidis.*

Like *C. ferruginea* in structure: body black, clothed with black hairs and bristles: head adorned with white lustre; a triangular spot at the base of the feelers: eyes pitchy; fore part rather flat, its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers tawny at the base: chest adorned with a hoary covering: abdomen spindle-shaped, adorned with a fawn-coloured covering, longer and a little narrower than the chest: legs tawny, clothed with black hairs and bristles; feet black: wings whitish; wing-ribs and veins tawny, the latter pitchy towards the tips; lower cross-vein slightly curved inward in the middle part of its course; scales white, with yellow borders; poisers tawny. Length of the body 3 lines; of the wings 7 lines.

a. Massachusetts. From Professor Sheppard's collection.

### LISPE, Meigen.

*LISPE tentacula*, Fall. *Musc.* 931. *Meig. Dipt.* v. 226, 3., pl. 45, f. 15. *Macq. Hist. Nat. Dipt.* ii. 314, 2. *Zett. Ins. Lapp.* 699, 1. *Dipt. Scand.* v. 1796, 1. *Musca tentaculata*, Fall. *Musc.* 931. *Latr. Gen. Crust.* iv. 347. *Cons. Gén.* 444. *Lispa fluviatilis*, Desv. *Essai Myod.* 525, 2.

a. England.

b. France.

c. Stockholm. Presented by the Entomological Club.

*LISPE litorea*, Fall. *Dipt. Musc.* 94, 3. *Meig. Dipt.* v. 227, 4. *Haliday, Ent. Mag.* i. 166. *Zett. Dipt. Scand.* v. 1799, 4. *Loew. Ent. Zeit. Stett.* viii. 1847, 25, 2.

a. England.

*LISPE hispida*, Barnston's MSS. *Cinerea, capite antico fulvo, abdominis dorso nigro maculis cinereis ornato, palpis fulvis, antennis nigris, pedibus nigro-cinereis, tarsis piceis, alis cinereis.*

Body black, clothed with black hairs and bristles: head hoary behind, pale dull tawny in front; sides of the face without bristles;

epistoma not prominent: eyes red; fore part flat, its facets very much larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles, widened into a round form: feelers black, as long as the face: third joint slender, linear, conical at the tip, more than thrice the length of the second joint: chest and breast tinged with gray: abdomen elliptical, a little broader and longer than the chest, flat above, adorned on each side with large triangular gray spots; under side gray: legs black, clothed with black hairs and bristles; thighs and shanks tinged with gray; knees ferruginous; feet pitchy; claws black; foot-cushions tawny: wings gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein nearly straight, but having a slight outward curve near the base; scales large, whitish with pale yellow borders, the lower extending far beyond the upper; poisers dark tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*LISPE simillima*, n. s., fem. *Nigra, palpis antennis pedibusque nigris, alis cinereis.*

Body black, clothed with black hairs and bristles: eyes black; fore part flat, its facets larger than those elsewhere: sucker and palpi black, hairy: feelers black, a little shorter than the face; third joint linear, rounded at the tip, near thrice the length of the second; bristle feathered: abdomen elliptical, flat, a little longer and broader than the chest: legs black, clothed with black hairs and bristles: wings gray; wing-ribs pitchy; veins black; lower cross-vein straight, separated by more than twice its length from the middle cross-vein; scales white, with tawny borders; poisers pitchy. Length of the body 3 lines; of the wings 6 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### *CORDYLURA, Fallen.*

Group I. *Mosina*, Desv. *Essai Myod.* 670.

*CORDYLURA pubera*, Fall. *Scatomyz.* 6, 1. *Meig. Dipt.* v. 230, 1. pl. 45, f. 22. *Macq. Hist. Nat. Dipt.* ii. 381, 1, pl. 18, f. 7. *Zett. Ins. Lapp.* 725, 1. *Dipt. Scand.* v. 1995, 1. *Musca pubera*, Linn. *Syst. Nat.* ii. 994. *Faun. Suec.* 1855. *Gmel. Ed.*

*Syst. Nat.* i. 5, 2850, 95. *Fabr. Sp. Ins.* ii. 446, 55. *Ent. Syst.* iv. 336, 101. *Ocyptera pubera*, *Fabr. Syst. Antl.* 315, 10. *Mosina pubera*, *Desv. Essai Myod.* 671, 1.

a. England.

b. France?

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CORDYLURA picipes*, *Meig. Dipt.* v. 232, 4. *Macq. Hist. Nat. Dipt.* ii. 382, 6.

a. England.

*CORDYLURA albipes*, *Fall. Scatom.* 9, 8. *Meig. Dipt.* v. 283, 8. *Macq. Hist. Nat. Dipt.* ii. 383, 10. *Zett. Ins. Lapp.* 726, 5. *Dipt. Scand.* v. 2004, 9. *Mosina filipes*, *Desv. Essai Myod.* 673, 7.

a. England. Presented by F. Walker, Esq.

b. ———?

c. France.

#### Group II. *Phrosia*, *Desv. Essai Myod.* 668.

*CORDYLURA albilabris*, *Meig. Dipt.* v. 233, 7. *Macq. Hist. Nat. Dipt.* ii. 382, 8. *Zett. Dipt. Scand.* v. 2002, 8. *Ocyptera albilabris*, *Fabr. Syst. Antl.* 315, 11. *Phrosia scirpi*, *Desv. Essai Myod.* 669, 1.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

#### Group III. *Norellia*, *Desv. Essai Myod.* 673.

*CORDYLURA armipes*, *Meig. Dipt.* v. 234, 10.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*CORDYLURA flavicauda*, *Meig. Dipt.* v. 235, 12. *Macq. Hist. Nat. Dipt.* ii. 384, 14.

a. England. Presented by F. Walker, Esq.

*CORDYLURA spinimana*, *Fall. Scatom.* 7, 3. *Meig. Dipt.* v. 235, 13. *Macq. Hist. Nat. Dipt.* ii. 383, 11. *Zett. Ins. Lapp.* 726, 7. *Dipt. Scand.* v. 2007, 11. *Musca semiflava*, *Panz. Faun. Germ.* 59, 19. *Norellia pseudo-narcissi*, *Desv. Essai Myod.* 673, 1.

a. England. Presented by F. Walker, Esq.



## Group ——— ?

*CORDYLURA apicalis*, Wied. Meig. Dipt. v. 236, 15.

a. England.

Group IV. *Cleigastra*, Macq.

*CORDYLURA liturata*, Wied. Meig. Dipt. v. 238, 19. *Cleigastra liturata*, Macq. Hist. Nat. Dipt. ii. 387, 12.

a. England. Presented by F. Walker, Esq.

*CORDYLURA obscura*, Fall. Scatom. 9, 6? Meig. Dipt. v. 240, 24. Zett. Dipt. Scand. v. 2066, 57. *Cleigastra obscura*, Macq. Hist. Nat. Dipt. ii. 385, 3.

a. England. Presented by F. Walker, Esq.

*Note.*—The following species of *Cordylura* are not arranged in groups.

*CORDYLURA bicolor*, Barnston's MSS., fem. *Cana, thorace fusco quadrivittato, lateribus scutellique apice ferrugineis, abdomine ferrugineo basi subtusque cinereo, pedibus fulvis, alis subcinereis.*

Body black, adorned with a hoary covering, very thickly clothed with black hairs and bristles: head wanting: chest with four slender brown stripes, the outer pair indistinct; sides partly ferruginous; tip of the scutcheon ferruginous: abdomen obconical, ferruginous, longer than the chest, gray towards the base, and especially on the under side: legs tawny, clothed with black hairs and bristles; feet pitchy towards the tips; claws black; fore thighs rather darker and stouter than the rest: wings pale gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein very slightly curved inward, indistinctly clouded; scales very small, their tawny borders fringed with pale yellow hairs: poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CORDYLURA cupricrus*, Barnston's MSS., mas. *Cana, capite albo, vertice ferrugineo maculato, palpis piceis, antennis nigris, pedibus fulvis, tarsis piceis, alis limpidis.*

Body black, clothed with black hairs and bristles, adorned with a hoary covering: head white in front and beneath: a bright ferru-

ginous spot on the crown adjoining the base of the feelers; sides of the face and of the peristoma pale ferruginous, the former without bristles; epistoma not prominent: eyes red, partly black, convex; all the facets very small: sucker black, tawny at the base, clothed at the tip with tawny hairs; palpi pitchy, tawny at the base, clothed with black bristles; feelers black, a little shorter than the face; third joint nearly linear, rounded at the tip, much more than twice the length of the second; bristle feathered with hairs of moderate length, much more than twice the length of the third joint: abdomen linear, narrower and very much longer than the chest; appendages tawny: legs tawny, clothed with black hairs and bristles; fore thighs gray; feet pitchy; foot-cushions tawny: wings colourless; wing-ribs and veins pale tawny, the latter darker towards the tips; lower cross-veins straight; scales rudimentary; poisers yellow. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CORDYLURA flavipennis*, Barnston's MSS., fem. *Cinerea*, *palpis antennisque nigris*, *alis subfulvis*.

Body black, with a gray covering, clothed with black hairs and bristles: sides of the face without bristles: epistoma prominent: eyes red; fore part convex; all the facets very small: sucker black, long, slender, clothed with tawny hairs; palpi black, subclavate, beset with black bristles: feelers black, a little shorter than the face; third joint downy, very slightly increasing in depth to the tip, which is almost truncated, nearly thrice the length of the second joint; bristle downy, about twice the length of the third joint: abdomen spindle-shaped, longer but not broader than the chest: legs black, clothed with black hairs and bristles; foot-cushions pitchy: wings slightly tawny; wing-ribs and veins tawny; veins pitchy towards the tips; lower cross-vein straight; scales dingy white, with pale yellow borders; poisers pale tawny. Length of the body 3 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CORDYLURA imperator*, Barnston's MSS., fem. *Cinerea*, *palpis antennisque nigris*, *pedibus fulvis*, *alis subcinereis ad costam subfulvis*.

Body black, with a gray covering, clothed with black hairs and bristles: sides of the face without bristles; epistoma hardly prominent: eyes red; fore part slightly convex; the facets small: sucker black, clothed with tawny hairs; palpi black, beset with

black bristles: feelers black, nearly as long as the face; third joint linear, rounded at the tip, nearly twice the length of the second; bristle feathered to the tip with short hairs, nearly twice the length of the third joint; abdomen nearly linear: legs tawny, clothed with black hairs and bristles; claws black; foot-cushions pale tawny: wings somewhat gray, with a slight tawny tinge along the fore-borders; wing-ribs tawny; veins pitchy; lower cross-vein very slightly curved inward; scales dingy white, with pale yellow borders; poisers pale tawny. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CORDYLURA longa*, n. s. mas. *Cinerea, angusta, capite flavo, thorace bivittato, abdomine nigro, palpis fulvis apice piceis, antennis flavis, pedibus fulvis, alis subcinereis.*

Body long and narrow, thinly clothed with black hairs and bristles: head bright yellow, with the exception of a black band across the crown, including the eyelets, clothed beneath with pale yellow hairs; hind part gray; sides of the face without bristles; epistoma not prominent: sucker black, clothed at the tip with tawny hairs; palpi tawny, pitchy towards the tips, clothed with black bristles: eyes dark red, partly black, convex; facets of the fore part larger than those elsewhere: feelers bright yellow, much shorter than the face; third joint nearly linear, almost truncated at the tip, clothed with black down, more than twice the length of the second joint; bristle black, bare, slender, stout towards the base, more than twice the length of the third joint: chest and breast gray; chest with two slender, indistinct darker stripes on each side: abdomen black, shining, thickly clothed on each side and beneath with black hairs, linear, narrower and very much longer than the chest: legs tawny, clothed with black hairs and bristles; claws black: wings slightly tinged with gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein straight; scales rudimentary; poisers yellow. Length of the body  $2\frac{1}{4}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**CORDYLURA tenuior**, Barnston's MSS. *Cinerea, capite pectoreque canis, palpis pedibusque fulvis, antennis tarsisque nigris, alis limpidis.*

Body black, adorned with a gray covering, clothed with black hairs and bristles; head hoary in front and beneath; sides of the face without bristles: eyes bright red; facets of the front a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, nearly as long as the face; third joint linear, rather slender, tawny at the base, rounded at the tip, more than twice the length of the second joint; bristle clothed with short hairs, nearly thrice the length of the third joint: breast hoary: abdomen wanting: legs tawny, clothed with black hairs and bristles; feet black, tawny at the base; foot-cushions tawny: wings colourless; wing-ribs and veins tawny; lower cross-vein perpendicular, nearly straight, more than twice its length distant from the middle cross-vein, and about four times its length from the tip of the wing; scales very small, colourless, with pale yellow borders; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**CORDYLURA volucricaput**, Barnston's MSS., mas. et fem. *Cinerea, capite ferrugineo maculato, abdomine nigro apice fulvo, palpis flavis, antennis nigris basi ferrugineis, pedibus fulvis, alis limpidis.*

Body black, with a gray covering, clothed with black hairs and bristles: a large ferruginous spot adjoining the base of the feelers; peristoma white, tawny on each side; sides of the face without bristles; epistoma not prominent: eyes red, convex; facets on the fore part larger than those elsewhere: sucker black, clothed with tawny hairs; palpi pale yellow, spindle-shaped, clothed with white hairs: feelers deep black, much shorter than the face; first and second joints ferruginous; third joint conical, much longer than the second; bristle bare, slender, rather stout at the base, a little more than twice the length of the third joint: abdomen quite black, linear, tawny and shining at the tip, clothed with hoary hairs and bristles; longer but hardly narrower than the chest: legs tawny, clothed with hoary hairs and with a few black bristles; claws black; fore thighs rather thick: wings colourless; wing-ribs tawny; veins black, tawny at the base; lower cross-vein straight; scales very small, colourless, their borders pale yellow, fringed with white hairs; poisers tawny. *Female*.—Head pale yellow on each side of the

peristoma; face white: first and second joints of the feelers ferruginous; third joint more than twice the length of the second: under side of the abdomen dull ferruginous. Length of the body 2 lines; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CORDYLURA* *Æa*, n. s., fem. *Cana, abdomine fusco sexmaculato, palpis antennisque nigris, pedibus fulvis, femoribus cinereis, alis limpidis.*

Body hoary, clothed with black hairs and bristles: sides of the face without bristles; epistoma rather prominent: eyes red: a stripe of the fore part nearly flat, its facets much larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, much shorter than the face; third joint nearly twice the length of the second, very slightly decreasing in depth from the base to the tip, which is obliquely truncated; bristle much more than twice the length of the third joint, its second joint of moderate length; third joint clothed with very short black hairs for half the length from the base, which is stout: abdomen elliptical, deep, slightly compressed, a little longer and narrower than the chest; a brown spot on each side of the third, fourth, and fifth segments: legs tawny, clothed with black hairs and bristles, which are longest and most frequent on the shanks; thighs gray, with tawny tips; feet dark tawny, with black tips; claws black; foot-cushions large, pale yellow: wings colourless or whitish; wing-ribs and veins tawny; lower cross-vein straight, about twice its length distant from the middle cross-vein; scales large, white, the lower extending far beyond the upper; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

#### SCATOPHAGA, Latreille.

\* *Feeler-bristle hairy.*

*SCATOPHAGA formosa*, M. B. Wied. *Auss. Zweif.* ii. 447, 1.

a. Nepaul. From the Hardwicke bequest.

b. North India. From Mrs. L. James' collection.

*SCATOPHAGA scybalaria*, *Latr. Gen. Crust.* iv. 358. *Meig. Dipt.* v. 247, 1. *Desv. Essai Myod.* 624, 1. *Macq. Hist. Nat. Dipt.* ii. 392, 1. *Musca scybalaria*, *Linn. Faun. Suec.* 1860. *Gmel. Ed. Syst. Nat.* v. 2853, 104. *Fabr. Sp. Ins.* ii. 449, 72. *Ent. Syst.* iv. 345, 137. *Syst. Antl.* 307, 118. *Scatomyza scybalaria*, *Fall. Scatom.* 3, 1. *Zett. Ins. Lapp.* 720, 1. *Dipt. Scand.* v. 1960, 1.

a. England.

b. France.

*SCATOPHAGA stercoraria*, *Latr. Gen. Crust.* iv. 358. *Meig. Dipt.* v. 248, 2. *Desv. Essai Myod.* 627, 7. *Macq. Hist. Nat. Dipt.* ii. 393, 5. *Musca stercoraria*, *Linn. Faun. Suec.* 1861. *Gmel. Ed. Syst. Nat.* v. 2853, 105. *Fabr. Sp. Ins.* ii. 449, 73. *Ent. Syst.* iv. 345, 137. *Syst. Antl.* 307, 119. *Deg. Ins.* vi. 42, 17. *Geoff. Ins.* ii. 530, 69. *Reaum. Ins.* iv. *Mem.* 9, 118, *pl.* 26. *M. scybalaria*, *Schrank, Ins. Austr.* 950. *Volucella scybalaria*, *Schrank, Faun. Boic.* iii. 2499. *Scatomyza stercoraria*, *Fall. Scatom.* 4, 3. *Zett. Ins. Lapp.* 721, 3. *Dipt. Scand.* v. 1968, 7.

a. England.

b. France.

c. ———? From Mr. Children's collection.

d. Hammerfest. Presented by F. Walker, Esq.

e. East Indies. Presented by Capt. Parry.

*SCATOPHAGA hottentotta*, *Macq. Dipt. Exot.* ii. 3. 185.

a. South Africa. Presented by Dr. A. Smith.

*SCATOPHAGA merdaria*, *Meig. Dipt.* v. 249, 3. *Macq. Hist. Nat. Dipt.* ii. 294, 6. *Musca merdaria*, *Fabr. Ent. Syst.* iv. 344, 133. *Syst. Antl.* 306, 114. *Scatomyza merdaria*, *Zett. Dipt. Scand.* v. 1970.

a. England.

b. France.

c. Finmark. From Mr. Children's collection.

d. ———?

e. Alten. Presented by F. Walker, Esq.

f. Kollare, Lapland. Presented by the Entomological Club.

g. Upsal. Presented by the Entomological Club.

*SCATOPHAGA lutaria*, Meig. *Dipt.* v. 249, 4. Macq. *Hist. Nat. Dipt.* ii. 1393, 2. *Musca lutaria*, Fabr. *Ent. Syst.* iv. 344, 133. *Syst. Antl.* 306, 115. *Scatomyza suilla*, Fall. *Scatom.* 3, 2. Zett. *Ins. Lapp.* 720, 2. *S. lutaria*, Zett. *Dipt. Scand.* v. 1962, 2.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

d. Umea, Sweden. Presented by the Entomological Club.

e. Finmark. From Mr. Children's collection.

*SCATOPHAGA spurca*, Meig. *Dipt.* v. 250, 6. Macq. *Hist. Nat. Dipt.* ii. 393, 4. *Scatomyza suilla*, var.  $\gamma$ , Fall. *Scatom.* 52. Zett. *Ins. Lapp.* 720, 2, var. *b, c*. *S. spurca*, Zett. *Dipt. Scand.* iv. 1967, 6. *Scatophaga nemorosa* ? Desv. *Essai Myod.* 625, 3.

a. England.

b. Upsal. Presented by the Entomological Club.

c. Aix-la-Chapelle. Presented by F. Walker, Esq.

*SCATOPHAGA intermedia*, n. s., fem. *Cana, capite fulvo supra flavo maculato subtus albo micante, thoracis lateribus fusco maculatis, abdominis apice fulvo, palpis fulvis, antennis nigris basi ferrugineis, pedibus fulvis, alis subcinereis.*

Body with a hoary covering, clothed with black hairs and bristles: head tawny, bright yellow at the base of the feelers, adorned beneath with white reflections; sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets small: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers black, much shorter than the face; first and second joints ferruginous; third joint linear, ferruginous at the base, rounded at the tip, much longer than the second joint; bristle downy, not longer than the third joint: chest adorned on each side with some pale brown marks: abdomen elliptical, tawny at the tip, very little longer and broader than the chest: legs tawny, clothed with black hairs and bristles; feet darker; claws black; thighs tinged with gray: wings slightly gray; wing-ribs tawny; veins pitchy, tawny towards the base; poisers pale tawny. Length of the body 2 lines; of the wings  $4\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

*SCATOPHAGA pallida*, n. s. fem. *Fulva, palpis flavis, antennis fulvis, abdominis apice ferrugineo, pedibus flavis, tarsis anticis fulvis, alis limpidis.*

Body pale tawny, thinly beset with black bristles: head clothed beneath with a few pale tawny hairs; face white, bordered with yellow; a single black bristle on each side at the base; epistoma not prominent: eyes red, convex; the facets very small, but rather larger on the fore part than elsewhere: sucker ferruginous, clothed with tawny hairs; palpi pale yellow, beset with black bristles: feelers pale tawny, shorter than the face; third joint linear, rounded at the tip, much longer than the second; bristle black, feathered with hairs of moderate length, stout at the base, near twice the length of the third joint: disk of the chest tawny: abdomen a little longer than the chest, tapering from near the base to the tip, which is ferruginous: legs yellow, clothed with short black hairs, beset with a few black bristles; claws black; fore feet tawny: wings colourless; wing-ribs pale tawny; veins tawny, paler at the base; lower cross-vein with two curves, the lower outward, the upper inward, parted by more than its length from the middle cross-vein, and by more than twice its length from the tip of the wing; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### Group III. *Scatina*, Desv. *Essai Myod.* 629.

*SCATOPHAGA squalida*, Meig. *Dipt.* v. 252, 10. *Macq. Hist. Nat. Dipt.* ii. 394, 9. *Cordylura fuscinervis*, Zett. *Ins. Lapp.* 733, 8. *Scatomyza squalida*, Zett. *Ins. Lapp.* 721, 6. *Dipt. Scand.* v. 1972, 10.

a. England.

b. France.

c. Karasawandra, Lapland. Presented by F. Walker, Esq.

d. Hammerfest. Presented by F. Walker, Esq.

e. Kollare. Presented by the Entomological Club.

f. Haparanda. Presented by the Entomological Club.

g. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

h. Nova Scotia. From Lieut. Redman's collection.

*SCATOPHAGA litorea*, Meig. *Dipt.* v. 254, 15. *Scatomyza litorea*, Fall. *Scatom.* 4, 4. Zett. *Ins. Lapp.* 722, 8. *Dipt. Scand.* v. 1975, 12.

a. Hammerfest. Presented by F. Walker, Esq.



**SCATOPHAGA pubescens**, *Barnston's MSS.*, mas. *Fusca, capite antico ferrugineo, palpis flavis, antennis ferrugineis, pedibus fulvis, alis subcinereis.*

Body adorned with a pale dull brown covering, clothed with blue hairs and bristles: head ferruginous in front, sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets small: sucker black; palpi pale yellow: feelers pale ferruginous; third joint linear, rounded and blackish towards the tip, much longer than the second joint; bristle downy towards the base, much more than twice the length of the third joint: abdomen a little longer than the chest: legs dark tawny, clothed with black hairs and bristles; claws black: wings slightly gray; wing-ribs tawny; veins pitchy, tawny towards the base; cross-veins clouded with brown; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.
- b. Nova Scotia. From Lieut. Redman's collection.

**SCATOPHAGA bicolor**, *Barnston's MSS.*, mas. *Cinerea, capitis vertice ferrugineo, abdomine fulvo, palpis flavis, antennis ferrugineis, articulo 3<sup>o</sup> supra piceo, pedibus fulvis, alis subcinereis.*

Body thinly beset with long black bristles: head and chest gray: head ferruginous in front of the crown, yellow beneath: sides of the face with two or three bristles at the base; epistoma slightly prominent: eyes pitchy, convex; facets of the fore part larger than those elsewhere: sucker ferruginous, clothed with tawny hairs; palpi yellow, beset with black bristles: feelers ferruginous, nearly as long as the face; third joint linear, pitchy above, rounded at the tip, about twice the length of the second; bristle black, downy, rather stout at the base, about twice the length of the third joint: chest adorned with three brown stripes: abdomen pale tawny, nearly linear, clothed with short black hairs, hardly longer than the chest: legs tawny, clothed with black hairs, beset with black bristles; claws black; foot-cushions yellow: wings very slightly gray; wing-ribs tawny; veins pitchy, tawny at the base; cross-veins clouded with brown; lower cross-vein hardly curved outward, slightly oblique, parted by full twice its length from the middle cross-vein, and by more than thrice its length from the tip of the wing; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

SCATOPHAGA villipes. Scatomyza villipes, Zett. Dipt. Scand. v. 197.

a. Finmark. Presented by F. Walker, Esq.

SCATOPHAGA Zamiel, (n. g.?) n. s., mas. et fem. *Atra, capite rufo, abdomine nigro-cyaneo, palpis antennisque rufis, pedibus alisque nigris.*

Body bluish black, shining, clothed with black hairs: head deep red: eyes black: sucker red above, pitchy and clothed with tawny hairs beneath; palpi red, beset with long black bristles: feelers red, very short; third joint rounded at the tip, shorter than the second; bristle tawny, bare, more than thrice the length of the third joint: abdomen dark blue: legs black, clothed with black hairs; foot-cushions tawny: wings, wing-ribs and scales black; poisers black. Length of the body 11—12 lines; of the wings 20—22 lines.

a. Interior of South Africa. Presented by the Earl of Derby.

Group IV. Amina, Desv. Essai Myod. 628.

Group V. Tomella, Desv. Essai Myod. 630.

# • DRYOMYZA, Meigen.

Group I. Dryope, Desv. Essai Myod. 618.

DRYOMYZA flaveola, Meig. Dipt. v. 256, 1. Macq. Hist. Nat. Dipt. ii. 396, 1, pl. 18, f. 11. Zett. Ins. Lapp. 736, 1. Dipt. Scand. v. 2084, 2. Musca flaveola, Fabr. Ent. Syst. iv. 243, 130. Syst. Antl. 306, 111. M. mellinus, Harr. Ex. 74, pl. 21, f. 4. Dryomyza vetula, Fall. Sciomyz. 16, 1. Dryope communis, Desv. Essai Myod. 619.

a. England.

b. ———? From Mr. Children's collection.

DRYOMYZA præusta, Meig. Dipt. v. 257, 3. Macq. Hist. Nat. Dipt. ii. 396, 3. Dryope liturata? Desv. Essai Myod. 619, 2.

a. England.

DRYOMYZA convergens, n. s., fem. *Fulva, capite antico flavo, thorace trivittato, palpis antennis pedibusque fulvis, alis subfulvis.*

Body tawny: head and chest beset with a few black bristles: head pale yellow in front; sides of the face without bristles; epi-

stoma very slightly prominent: eyes pale red, convex; facets of the fore part larger than those elsewhere: sucker tawny, thinly clothed with yellow hairs; palpi tawny, beset with black bristles: feelers tawny, shorter than the face; first and second joints beset with a few black bristles; third joint nearly round, much broader and a little longer than the first and the second; bristle black, slender, its second joint of moderate length, the third downy, more than four times the length of the third feeler-joint: chest with three indistinct darker stripes; breast paler than the chest: abdomen spindle-shaped, darker than the chest, beset with short black bristles: legs pale tawny, thinly clothed with short black hairs; tips of the shanks armed with black spurs; feet darker than the shanks; claws black: wings pale tawny; wing-ribs and veins tawny; veins pitchy towards the tips; lower cross-vein pitchy, straight, clouded with brown, full thrice its length distant from the middle cross-vein; poisers yellow. Length of the body 3—3½ lines; of the wings 7—8 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*DRYOMYZA* Appula, n. s., mas. *Fulva, abdominis apice fusco, palpis antennis pedibusque fulvis, alis limpidis.*

Body tawny: head and chest thinly beset with long black bristles: head paler in front; sides of the face without bristles; epistoma not prominent; a fringe of short black bristles along the eyes, which are black and convex; all the facets very small: sucker and palpi tawny; palpi beset with short black bristles: feelers tawny, darkest along the upper side; third joint conical, much more than twice the length of the second, its breadth less than half its length; second joint of the bristle rather stout, dark tawny, somewhat long; third joint black, downy, slender, much more than twice the length of the third feeler-joint: breast clothed with a few very short black hairs: abdomen obconical, much shorter than the chest, brownish towards the tip, clothed with black hairs and bristles: legs tawny, clothed with short black hairs and with a few black bristles; feet darker towards the tips; claws black: wings colourless; wing-ribs and veins tawny; veins pitchy towards the tips; lower cross-vein very slightly curved inward, more than twice its length distant from the middle cross-vein, which is stout and straight; poisers yellow. Length of the body 3 lines; of the wings 7 lines.

a. New Holland. Presented by the Entomological Club.

## SAPROMYZA, Meigen.

*Note.*—Desvoidy's groups are indicated in the remaining part of this Catalogue, but a complete reference of the species to his genera is reserved for a future publication.

SAPROMYZA obsoleta, *Fall. Ortal.* 31, 6. *Meig. Dipt.* v. 260, 2. *Zett. Ins. Lapp.* iv. 752, 8. *Macq. Hist. Nat. Dipt.* ii. 397, 1. (Group Sylvia, *Desv. Essai Myod.* 636.) *Musca flava*, *Fabr. Sp. Ins.* ii. 452, 92. *Ent. Syst.* iv. 355, 177. *Gmel. Ed. Syst. Nat.* i. 5, 2856, 115. *Stew. El.* 262. *Turt.* iii. 620. \* *Tephritis flava*, *Fabr. Syst. Antl.* 317, 6. *Sylvia apicalis*, *Desv. Essai Myod.* 636, 1.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. France.

SAPROMYZA florida, *Fall. Ortal.* 32.7. *Meig. Dipt.* v. 259, 1, *Zett. Ins. Lapp.* 4, 751, 4. *Macq. Hist. Nat. Dipt.* ii. 398, 3. (Group Lycia, *Desv. Essai Myod.* 637.) *Musca mulsus*? *Harr. Ex.* 116, pl. 34, f. 20. *Lycia flava*, *Desv. Essai Myod.* 638, 1.

a. England.

b. France.

c. Sweden. Presented by the Entomological Club.

SAPROMYZA pallida, *Fall. Ortal.* 32, 8. *Meig. Dipt.* v. 260, 3.

a. England.

b. France.

SAPROMYZA flava, *Fall. Ortal.* 33, 13. *Meig. Dipt.* v. 260, 4. *Hagenbach, Symb. Faun. Ins. Helv.* 47, f. 29. *Zett. Ins. Lapp.* 4, 753, 11. *Musca flava*, *Linn. Syst. Nat. Ed.* xii. 2, 997, 115, *Faun. Suec.* 1869. *Deg. Ins.* vi. 18, 13. *Geoff. Ins.* ii. 537, 86. *Schrank, Ins. Austr.* 957. *Faun. Boic.* iii. 2464. *Berk. Syn.* i. 165. *Shaw, Gen. Zool.* vi. 385.

a. England.

b. France.

c. Lapland. Presented by F. Walker, Esq.

d. Hammerfest. Presented by F. Walker, Esq.

e. ———? From Mr. Children's collection.

f. ———?

*SAPROMYZA albiceps*, *Fall. Ortal.* 33, 11. *Meig. Dipt.* v. 261, 6.  
(Group *Chyromya*, *Desv. Essai Myod.* 620). *Musca flava*?  
*Linn.*, &c. *Chyromya fenestrarum*, *Desv. Essai Myod.* 621, 1.  
*Lisella flava*? *Desv. Essai Myod.* 649, 1. *Scyphella flava*?  
*Desv. Essai Myod.* 650, 1.

a. England.

*SAPROMYZA quadripunctata*, *Fall. Ortal.* 32, 9. *Meig. Dipt.* v. 262, 7. *Macq. Hist. Nat. Dipt.* ii. 398, 6. (Group *Lycia*, *Desv. Essai Myod.* 637. *Musca quadripunctata*, *Fabr. Sp. Ins.* ii. 453, 93. *Ent. Syst.* iv. 356, 178. *Gmel. Ed. Syst. Nat.* i. 5, 2856, 116. *Schrank, Faun. Boic.* iii. 2465. *Tephritis quadripunctata*, *Fabr. Syst. Antl.* 318, 7. *Turt.* iii. 620. *Lycia quadripunctata*, *Desv. Essai Myod.* 638, 2.

a. England.

b. France.

*SAPROMYZA sexpunctata*, *Meig. Dipt.* v. 262, 8. *Macq. Hist. Nat. Dipt.* ii. 398, 7. *Lycia sexpunctata*, *Desv. Essai Myod.* 638, 3.

a. England.

*SAPROMYZA præusta*, *Fall. Ortal.* 31, 4. *Meig. Dipt.* v. 264, 14.  
*Macq. Hist. Nat. Dipt.* ii. 399, 10. *Zett. Ins. Lapp.* iv. 751, 3. *Lycia liturata*, *Desv. Essai Myod.* 640, 10.

a. England.

b. France.

c. Upsal. Presented by the Entomological Club.

*SAPROMYZA rivosa*, *Meig. Dipt.* v. 265, 17. *Macq. Hist. Nat. Dipt.* ii. 403, 31. (Group *Minettia*, *Desv. Essai Myod.* 646.) *Minettia nemorosa*, *Desv. Essai Myod.* 647, 1.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*SAPROMYZA trimacula*, *Meig. Dipt.* v. 267, 22. *Musca minutus*,  
*Harr. Ex. pl.* 21, f. 7.

a. England.

*SAPROMYZA inusta*, *Meig. Dipt.* v. 267, 21. *Macq. Hist. Nat. Dipt.* ii. 401, 21.

a. England.

b. France.

*SAPROMYZA litura*, *Hoffmansegg, Meig. Dipt.* v. 266, 20. *S. Wiedemannii*, *Loew, Ent. Zeit. Stett.* ?

a. England.

**SAPROMYZA saltuum.** *Musca saltuum*, *Linn. Faun. Suec.* 1866. *Syst. Nat.* i. 996. 111. *Musca unicolor*, *Fabr. Syst. Antl.* 307, 120. *Palloptra marginella*, *Fall. Ortal.* 25, 4. *Sapromyza unicolor*, *Meig. Dipt.* v. 268, 24. *Macq. Hist. Nat. Dipt.* ii. 400, 18.

a. England.

**SAPROMYZA ustulata**, *Meig. Dipt.* v. 268, 25. *Macq. Hist. Nat. Dipt.* ii. 404, 17. *Palloptra ustulata*, *Fall. Ortal.* 24, 2.

a. England.

b. France.

**SAPROMYZA arcuata**, *Meig. Dipt.* v. 269, 27. *Macq. Hist. Nat. Dipt.* ii. 401, 22. *Musca arcuata*, *Fabr. Sp. Ins.* ii. 451, 86. *Ent. Syst.* iv. 353, 170. *Gmel. Ed. Syst. Nat.* i. 5, 2856, 242. *Dacus arcuatus*, *Fabr. Syst. Antl.* 277, 19. *Palloptra arcuata*, *Fall. Ortal.* 25, 3.

a. England.

b. France.

c. ———? From Mr. Children's collection.

- **SAPROMYZA umbellatarum**, *Meig. Dipt.* v. 269, 26. *Macq. Hist. Nat. Dipt.* ii. 402, 27. *Musca umbellatarum*, *Fabr. Sp. Ins.* ii. 451, 87. *Ent. Syst.* iv. 354, 171. *Turt.* iii. 619. *M. gangrænosa*, *Panz. Faun. Germ.* lix. 22. *Dacus umbellatarum*, *Fabr. Syst. Antl.* 277, 20. *Trupanea umbellatarum*, *Schrank, Faun. Boic.* iii. 2521. *Palloptra gangrænosa*, *Fall. Ortal.* 24, 1. *P. umbellatarum*, *Zett. Ins. Lapp.* 4, 750, 1.

a. England.

b. France.

c. Lapland. Presented by the Entomological Club.

**SAPROMYZA decempunctata**, *Meig. Dipt.* v. 270, 29. *Zett. Ins. Lapp.* iv. 751, 1. *Macq. Hist. Nat. Dipt.* ii. 401. 20. (Group *Suillia*, *Desv. Essai Myod.* 642.) *Palloptra decempunctata*, *Fall. Ortal.* 30, 1. *Suillia communis*, *Desv. Essai Myod.* 643, 4.

a. England.

b. France.

c. ———? From Mr. Children's collection.

**SAPROMYZA Philadelphica**, *Macq. Dipt. Exot.* ii. 3, 191, 13.

a. Georgia. From Mr. Abbot's collection.

b. Nova Scotia. From Lieut. Redman's collection.

**SAPROMYZA dichromata**, *White, Zool. Voy. Erebus and Terror.*  
*Fulva, abdomine piceo, palpis antennis pedibus alisque fmlvis.*

Body tawny, thinly clothed with short black hairs: head and chest beset with a few black bristles: sides of the face without bristles; epistoma not prominent: eyes pale red, convex; facets of the fore part a little larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, very much shorter than the face; third joint conical, downy, about twice the length of the second; bristle black, slender, downy, much more than thrice the length of the third joint: abdomen pitchy, nearly obconical, much shorter than the chest: legs tawny, clothed with short black hairs; feet dark tawny; claws black: wings tawny; wing-ribs and veins tawny, the latter darker towards the tips; lower cross-vein nearly straight; poisers tawny, with pitchy knobs. Length of the body  $2\frac{3}{4}$  lines; of the wings 7 lines.

a. New Zealand. Presented by Dr. Sinclair.

**SAPROMYZA Amida, mas.** *Fulva, capite flavo, abdomine piceo, palpis flavis, antennis pedibusque fulvis, tibiis posticis subarcuatis, alis limpidis.*

Body tawny: head and chest beset with a few black bristles: head yellow; face tinged with white, its sides without bristles: epistoma not prominent: eyes bright red, convex; all the facets very small: sucker and palpi yellow: feelers tawny, shorter than the face; third joint conical, downy, more than twice the length of the second; bristle black, rather stout, feathered with long hairs, less than twice the length of the third feeler joint: abdomen pitchy, linear, shining, longer and much narrower than the chest: legs tawny; tips of the shanks armed with black spines; feet darker towards the tips; claws black; hind shanks slightly curved: wings colourless; wing-ribs tawny; veins black, tawny at the base; lower cross-vein hardly curved inward, parted by much more than twice its length from the middle cross-vein; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Georgia. From Mr. Abbot's collection.

**SAPROMYZA vittata**, n. s. *Fulva, capite thoraceque flavo-albido vittatis, abdomine albido vittis duabus fulvis ornato, palpis antennis pedibusque fulvis, alis limpidis.*

Body pale tawny, beset with a few black bristles: face whitish, its sides without bristles, except at the base; epistoma not prominent: three yellowish white stripes on the crown of the head: eyes

red: sucker and palpi pale tawny, the former clothed with tawny hairs, the latter beset with black bristles: feelers pale tawny, much shorter than the face; third joint short, nearly round; bristle black, bare: chest adorned with two broad yellowish white stripes; its sides and the breast pale yellow: abdomen elliptical, hardly longer than the chest, whitish, with the exception of two stripes: legs tawny, thinly beset with black bristles; claws black: wings colourless; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein straight, perpendicular, parted by much more than twice its length from the middle cross-vein, and by more than thrice its length from the tip of the wing; poisers yellow. Length of the body  $1\frac{3}{4}$  line; of the wings  $3\frac{1}{2}$  lines.

a. Stockholm. Presented by the Entomological Club.

### ORTALIS, *Fallen.*

ORTALIS crassipennis, *Fall. Ortal.* 18, 2. *Meig. Dipt.* v. 273, 1, pl. 46, f. 23. *Zett. Dipt. Scand.* v. 2153, 2. (Group Melieria, *Desv. Essai Myod.* 715). *Musca crassipennis, Fabr. Ent. Syst.* iv. 357, 185. *Scatophaga crassipennis, Fabr. Syst. Antl.* 209, 26. *Melieria gangrenosa, Desv. Essai Myod.* 716, 1. *Ceroxys crassipennis, Macq. Hist. Nat. Dipt.* ii. 438, 3.

a. England.

b. France.

ORTALIS omissa, *Meig. Dipt.* v. 274, 2. *Ceroxys omissa, Macq. Hist. Nat. Dipt.* ii. 438, 4.

a. England. Presented by J. C. Dale, Esq.

b. ——— ?

ORTALIS centralis, *Meig. Dipt.* vi. 380, 24. *Zett. Dipt. Scand.* v. 2155, 4. *Tephritis centralis, Fabr. Syst. Antl.* 319, 14. *Ortalis Friesii, Fall. Ortal. Suppl.* 2, 14, 34.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

Group Meckelia, *Desv. Essai Myod.* 714.

Group Myodina, *Desv. Essai Myod.* 727.

ORTALIS urticæ, *Fall. Ortal.* 17, 1, *Meig. Dipt.* v. 275, 4, pl. 46, f. 19. *Zett. Ins. Lapp.* 747, 1. *Dipt. Scand.* v. 2152, 1, *Musca urticæ, Linn. Faun. Suec.* 1875. *Fabr. Sp. Ins.* ii. 453, 98. *Ent. Syst.* iv. 357, 184. *Gmel. Ed. Syst. Nat.* v.



2857, 123. *Scatophaga urticæ*, *Fabr. Syst. Antl.* 209, 25.  
*Myodina urticæ*, *Desv. Essai. Myod.* 728, 1. *Ceroxys urticæ*,  
*Macq. Hist. Nat. Dipt.* ii. 438, 2.

a. England.

b. France.

*ORTALIS ornata*, *Meig. Dipt.* v. 277, 8, pl. 46, f. 25. *Macq. Hist. Nat. Dipt.* ii. 434, 1. *Oscinis elegans*, *Latr. Dict. d'Hist. Nat.* *Meckelia elegans*, *Desv. Essai Myod.* 715, 1. *Blainvillia formosa*? *Desv. Essai Myod.* 713, 1. *B. jucunda*? *Desv. Essai Myod.* 714, 2.

a. France.

*ORTALIS Cerasi*, *Meig. Dipt.* v. 282, 19, pl. 46, f. 26. *Macq. Hist. Nat. Dipt.* ii. 436, 10. *Zett. Dipt. Scand.* v. 2157, 5. *Musca cerasi*, *Linn. Syst. Nat.* ii. 998. *Faun. Suec.* 1878. *Gmel. Ed. Syst. Nat.* i. 5, 2858, 124. *Fabr. Sp. Ins.* ii. 453, 99. *Ent. Syst.* iv. 358, 188. *Deg. Ins.* vi. 25, 19. *Stew. El.* ii. 263. *Turt.* iii. 621. *M. frondescentiæ*? *Linn. Faun. Suec.* 1881. *Tephritis cerasi*, *Fabr. Syst. Antl.* 320, 17. *Latr. Gen. Crust.* iv. 355. *Kirby and Sp. Intr. Ent.* i. 196. *T. mali*, *Fabr. Syst. Antl.* 320, 18. *T. morio*, *Fabr. Syst. Antl.* 322, 27. *Trupanca cerasi*, *Schrank, Faun. Boic.* iii. 2526. *Ortalis uliginosa*, *Fall. Ortal.* 19, 4. *Zett. Ins. Lapp.* 747, 2.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*ORTALIS paludum*, *Fall. Ortal.* 20, 7. *Meig. Dipt.* v. 282, 18. *Zett. Ins. Lapp.* 747, 4. *Dipt. Scand.* v. 2161, 8.

a. England.

b. France.

c. ———? From Mr. Children's collection.

Group *Heramya*, *Desv. Essai Myod.* 709.

Group *Myoris*, *Desv. Essai Myod.* 711.

Group *Myennis*, *Desv. Essai Myod.* 717.

Group *Strauzia*, *Desv. Essai Myod.* 718.

Group *Vidalia*, *Desv. Essai Myod.* 719.

Group *Delphinia*, *Desv. Essai Myod.* 719.

Group *Myrmecomya*, *Desv. Essai Myod.* 721.

Group? *Polystodes*, *Desv. Essai Myod.* 722.

ORTALIS syngenesiæ, *Meig. Dipt.* v. 283, 20, pl. 46, f. 29. (Group Rivellia, *Desv. Essai Myod.* 729.) *Zett. Dipt. Scand.* v. 2158, 6. Musca syngenesiæ, *Fabr. Sp. Ins.* ii. 454, 101. *Ent. Syst.* iv. 359, 192. *Gmel. Ed. Syst. Nat.* i. 5, 2858, 249. M. urticæ, *Schrank, Ins. Austr.* 476, 969. *Faun. Boic.* iii. 2460. Tephritis syngenesiæ, *Fabr. Syst. Antl.* 321, 23. *Latr. Gen. Crust.* iv. 355. Ortalis juncorum, *Fall. Ortul.* 19, 5. Rivellia herbarum, *Desv. Essai Myod.* 729, 1. Herina syngenesiæ, *Macq. Hist. Nat. Dipt.* ii. 433, 7.

a. England.

Group Herina, *Desv. Essai Myod.* 724.

Group Richardia, *Desv. Essai Myod.* 728.

Group Boisduvalia, *Desv. Essai Myod.* 730.

Group Clidonia, *Desv. Essai Myod.* 732.

Group Setellia, *Desv. Essai Myod.* 732.

Group Chlorophora, *Desv. Essai Myod.* 733.

ORTALIS Mentissa, n. s., mas. *Æneo-viridis, capite ferrugineo, palpis fulvis, antennis ferrugineis, pedibus viridi-aneis, tarsis ferrugineis, alis limpidis fusco quadrimaculatis.*

Body coppery-green: head and chest clothed with whitish hairs: head ferruginous, covered in front with white bloom; face pitchy; epistoma slightly prominent: eyes red; foremost part flat, composed of larger facets than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers ferruginous, as long as the face; third joint tapering from the base to the tip, full four times the length of the second; bristle black, barc, a little longer than the third joint: chest beset with black bristles: abdomen oval, thickly cross-wrinkled, hardly longer than the chest: legs coppery-green, clothed with short black hairs; knees, trochanters, and feet ferruginous; claws and tips of feet black; foot-cushions tawny: wings colourless, with four dark brown marks on the fore border, the first of them is a stripe along one-fourth of the length from the base of the wing; the second and third are bands which do not reach the hind border; the fourth is an almost round spot near the tip; wing-ribs and veins black; hinder veins tawny at the base; third longitudinal vein slightly curved near its junction with the middle cross-vein, which is rather

oblique; lower cross-vein very slightly curved inward; scales rudimentary; poisers yellow. Length of the body 2 lines; of the wings 4 lines.

a. West Australia. From Mr. Clifton's collection.

*ORTALIS* Massyla, n. s., fem. *Viridis, cepite ferrugineo, abdominis segmento 5<sup>o</sup> purpureo apice fulvo, palpis ferrugineis, antennis pedibusque nigris, tarsis fulvis, alis albis fusco trifasciatis.*

Body metallic-green, slender, clothed with short black hairs: head and chest beset with black bristles: head ferruginous above and along the borders of the eyes; epistoma ferruginous, prominent: eyes red; forepart slightly convex; its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi ferruginous, beset with black bristles: feelers black, much shorter than the face; third joint conical, ferruginous at the base, much longer than the second; bristle bare, very slender, more than thrice the length of the third joint: abdomen long-obconical, much longer than the chest, tapering, flat, and with a rim on each side towards the tip, which is tawny; fifth segment dark purple: legs black, clothed with short black hairs; knees ferruginous; feet and tips of shanks dull tawny: wings white, with three dark brown bands; the first extends nearly to the hind border, and joins the side of the middle cross-vein; the second reaches the hind border and encloses the lower cross-vein; it is darkest on the fore border, and there unites with the third, which widens along the fore border and occupies the whole of the tip of the wing; wing-ribs, veins, and poisers tawny; veins pitchy in the brown parts of the wings; lower cross-vein nearly straight. Length of the body  $1\frac{3}{4}$ —2 lines; of the wings 3—4 lines.

a. North America. Presented by the Entomological Club.

*ORTALIS* Otroeda, n. s., mas. *Cyaneo-viridis, palpis nigris, pedibus nigro-cyaneis, tibiis piceis, tarsis fulvis, alis limpidis fusco quadrimaculatis.*

Body bluish green, metallic, clothed with short black hairs: eyes red; fore part flat, composed of larger facets than those elsewhere: sucker and palpi black, clothed with short black hairs: abdomen obconical, hardly longer than the chest: legs bluish black, clothed with short black hairs; knees ferruginous; shanks pitchy; feet dark tawny, with black tips: wings colourless, adorned with four brown marks along the fore border; the first proceeds for a short space along the fore border, and descends obliquely into

the disk, the second is less oblique than the first, descends further into the disk of the wing, and includes the lower cross-vein; the fourth almost joins the third, and extends along the fore border to the tip of the wing; wing-ribs and veins black; poisers pitchy. Length of the body  $1\frac{3}{4}$  line; of the wings 3 lines.

a. North America. Presented by the Entomological Club.

*ORTALIS quadrifasciata.* Trypeta 4-fasciata, Harris, Cat. Ins. Massach. Fem. *Cyaneo-viridis, capite supra piceo, palpis nigris, antennis piceis, pedibus nigro-viridibus, tibiis piceis, tarsis fulvis, alis limpidis fusco quadrifasciatis.*

Body metallic bluish green, clothed with short black hairs: head and chest beset with a few black bristles: head pitchy between the eyelets and feelers, ferruginous on each side of the face; epistoma very prominent: eyes red; fore part flat, its facets much larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers pitchy, as long as the face, ferruginous at the base and beneath; third joint tapering from the base to the tip, near four times the length of the second; bristle downy, twice the length of the third joint: abdomen nearly spindle-shaped, thickly cross-wrinkled, a little longer than the chest: legs greenish black; knees ferruginous; shanks pitchy; feet tawny, with black tips; foot-cushions tawny: wings colourless, with four dark brown marks along the fore border; the first proceeds along the fore border for almost one-third of the length, and then descends obliquely into the disk; the second is less oblique and slightly curved, and extends nearer to the lower border, and incloses the middle cross-vein; the third is upright, extends to the hind border, and includes the lower cross-vein; the fourth is a stripe, which proceeds from the third along the fore border to a little below the tip of the wing; wing-ribs black; hinder veins tawny at the base; third longitudinal vein slightly curved near its junction with the middle cross-vein, which is rather oblique; lower cross-vein straight; scales rudimentary; poisers pitchy. Length of the body  $2\frac{1}{4}$  lines; of the wings 4 lines.

a. North America. Presented by the Entomological Club.

*ORTALIS?* Arima, n. s., fem. *Cyanea, capite fulvo, thorace aeneo-viridi, palpis antennisque fulvis, pedibus piceis, tarsis fulvis, alis fuscis maculis quatuor limpidis, marginibus posticis cinereis fusco maculatis.*

Body blue, shining, thinly clothed with black hairs: head and chest beset with a few black bristles: head tawny, very prominent

in front; a broad pitchy stripe between the eyelets and the epistoma, which is not prominent; sides of the face without bristles: eyes red, convex; all the facets small: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers dark tawny, about half the length of the face; third joint conical, downy, a little longer than the second; bristle black, about twice the length of the third joint, feathered from the base to the tip with hairs of moderate length: chest brassy green: abdomen nearly obconical, a little longer than the chest: legs pitchy, rather stout, clothed with short black hairs; feet tawny, with pitchy tips; claws black; foot-cushions pale tawny: wings dark brown, pale gray along the hind border towards the base; the brown colour passes into the gray by means of several more or less distinct pale brown spots; the brown part is adorned with four colourless marks, the first of these is small, triangular, and a little beyond one-third of the length of the fore border, where the wing is almost black; the second is slightly curved, and extends quite across the wing or a little beyond the lower cross-vein; the third is triangular, and extends from the fore border half-way across the wing; the fourth occupies the lower part of the tip; wing-ribs and veins black; lower cross-vein with two very slight curves, the lower outward, the upper inward; the space between the two cross-veins is full twice the length of the lower cross-vein; poisers pitchy. Length of the body 2—2½ lines; of the wings 3½—4 lines.

a. ———?

ORTALIS Isara, n. s., mas. *Nigro-cyanea, palpis antennis pedibusque piccis, tarsis fulvis, alis limpidis vitta costali interrupta fasciisque duabus fuscis.*

Body black: head and chest beset with a few black bristles: face broad, its sides without bristles; epistoma hardly prominent; peristoma large, its sides dark ferruginous: eyes dark red; fore part nearly flat, its facets larger than those elsewhere: sucker and palpi pitchy; sucker clothed with tawny hairs: feelers pitchy, as long as the face; third joint slightly concave above, a little convex beneath, pointed and somewhat curved upward at the tip, about four times the length of the second joint; bristle black, downy, slender, rather less than twice the length of the third joint: chest and abdomen dark blue: abdomen elliptical, shagreened, hardly longer than the chest, clothed with pitchy hairs; oviduct pitchy: legs pitchy, clothed with a few short black hairs, beset with very few black bristles; feet dark tawny: wings colourless, adorned with a dark brown stripe, which extends from the base along half the length of the wing, and then descends towards the hind border:

beyond this a brown, slightly curved band extends across the wing, includes the lower cross-vein, and on the fore border joins a brown stripe, which passes to the tip of the wing; wing-ribs and veins black; veins mostly tawny in the colourless parts of the wing; lower cross-vein curved in the lower part of its course, nearly perpendicular, distant by much more than its length from the middle cross-vein, which is oblique; longitudinal veins straight; poisers tawny. Length of the body  $1\frac{1}{4}$  line; of the wings 3 lines.

a. North Bengal. From Miss Campbell's collection.

ORTALIS? diopsides, Barnston's MSS., fem. *Nigra, obscura, capite antico fulvo, palpis antennis pedibusque piceo-ferrugineis, alis subcinereis ad costam fusco bimaculatis.*

Body dull black, clothed with very short black hairs: head beset with a few black bristles, tawny in front and beneath, where it is covered with white bloom; sides of the face without bristles; epistoma slightly prominent: eyes dark red; facets of the fore part a little larger than those elsewhere: sucker and palpi ferruginous, partly pitchy; sucker clothed with tawny hairs; palpi beset with black bristles: feelers ferruginous, shorter than the face; third joint pitchy above, nearly round, longer than the second joint; bristle black, bare, slender, much more than twice the length of the third joint: abdomen spindle-shaped, much longer than the chest; last segment flat: legs pitchy, mostly ferruginous beneath, clothed with very short black hairs; claws black: wings slightly gray, with a narrow pitchy band at half the length of the fore border, on which, near the tip, there is a small brown spot; wing-ribs tawny; veins black, tawny at the base; longitudinal veins straight; lower cross-vein straight, slightly oblique, nearly twice its length distant from the middle cross-vein; poisers pale tawny. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

ORTALIS? costalis, n. s., fem. *Nigra, abdomine nigro-æneo, pedibus nigris, alis limpidis ad costam fusco bimaculatis, stigmate nigro.*

Head wanting: chest dull black, beset with a very few black bristles: abdomen sessile, brassy black, shining, slightly spindle-shaped, much longer but hardly broader than the chest: legs black, clothed with very short black hairs: wings colourless, with a small brown spot just above the tip, and another at the base of the fore border, where the vein is thickened; a black band along the mid-

dle of the fore border; wing-ribs and veins black; third longitudinal vein straight, with the exception of a very slight angle at its junction with the lower cross-vein, which has two very slight curves, the upper inward, the lower outward. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

### Group Scioptera, Kirby and Spence.

*ORTALIS* vibrans, *Falt. Ortal.* 20, 6. *Meig. Dipt.* v. 284, 21. *Macq. Hist. Nat. Dipt.* ii. 437, 11. *Zett. Ins. Lapp.* 747, 3. *Dipt. Scand.* v. 2159, 7. *Musca vibrans*, *Linn. Syst. Nat.* ii. 996. *Faun. Suec.* 1867. *Gmel. Ed. Syst. Nat.* i. 2855, 112. *Fabr. Sp. Ins.* ii. 450, 81. *Ent. Syst.* iv. 350, 158. *Deg. Ins.* vi. 17, 11, *pl.* 1, *f.* 19, 20. *Schrank, Ins. Austr.* 955. *Faun. Boic.* iii. 2459. *Rossi. Faun. Etrusc.* 479, 1531. *Geoff. Ins.* ii. 494, 4. *Harr. Ex.* 121, *pl.* 35, *f.* 39. *Berk. Syn.* i. 165. *Stew. El.* ii. 262. *Turt.* iii. 618. *Don. Hist. Brit. Ins.* x. 54, *pl.* 346, *f.* 3, xiii. 71, *pl.* 467, *f.* 1. *Tephritis vibrans*, *Fabr. Syst. Antl.* 324, 39. *Latr. Gen. Crust.* iv. 355. *Scioptera vibrans*, *Kirby and Spence, Intr. Ent.* ii. 305, 359.

a. England.

b. France.

### Group Toxoneura, Macquart.

*ORTALIS* lamed. *Musca lamed*, *Schrank. M. pulchella*, *Fabr. Ent. Syst.* iv. 352. *Rossi, Faun. Etrusc. Ed. Illiger.* ii. 478, 1528. *Dacus pulchellus*, *Fabr. Syst. Antl.* 275, 10. *Scatophaga lobata*, *Fabr. Syst. Antl.* 208, 22. *Palloptera pulchella*, *Fallen. Ortalis pulchella*, *Meig. Dipt.* vi. 379, 23. *Toxoneura fasciata*, *Macq. Hist. Nat. Dipt.* ii. 404, 1, *pl.* 18, *f.* 12.

a. England.

b. France.

### SEPSIS, Fullen.

#### Group I. Micropeza, Desv. *Essai Myod.* 740.

*SEPSIS* cynipsea, *Fall. Ortal.* 23, 5. *Meig. Dipt.* v. 287, 1. *Latr. Regn. Anim. Nouv. Ed.* v. 532. *Macq. Hist. Nat. Dipt.* ii. 477, 1. *Walk. Ent. Mag.* i. 247, 1. *Zett. Ins. Lapp.* 749, 7. *Musca cynipsea*, *Linn. Syst. Nat.* ii. 997, 113. *Faun. Suec.* 1868. *Gmel. Ed. Syst. Nat.* v. 2855, 113. *Scop. Ent. Carn.* 947. *Fabr. Sp. Ins.* ii. 451, 82. *Mant. Ins.* ii. 351, 100. *Ent. Syst.* iv. 351, 160. *Deg. Ins.* vi. 33, 18, 12. *Schrank,*

*Faun. Boic.* iii. 2461. *Ins. Austr.* 956. *Stew. El.* 262. *Turt.* iii. 618. Lesser *Musca vibrans*, *Harr. Ex.* 122, *pl.* 35, *f.* 43. *Tephritis cynipsea*, *Fabr. Syst. Antl.* 324, 41. *Micropeza cynipsea*, *Latr. Gen. Crust.* iv. 355. *Reg. Anim.* iii. 546. *M. fulvida*, *Desv. Essai Myod.* 742, 3.

- a. England. Presented by F. Walker, Esq.
- b. England.
- c. France.
- d. Haparanda. Presented by F. Walker, Esq.
- e. Alten. Presented by F. Walker, Esq.

*SEPSIS fulgens*, *Hoffmansegg, Meig. Dipt.* v. 287, 2. *Macq. Hist. Nat. Dipt.* ii. 477, 2. *Walk. Ent. Mag.* i. 248, 2. *Micropeza fulgida?* *Desv. Essai Myod.* 742, 3.

- a. England. Presented by F. Walker, Esq.
- b. Upsal. Presented by F. Walker, Esq.

*SEPSIS hilaris*, *Meig. Dipt.* v. 288, 3, *Macq. Hist. Nat. Dipt.* ii. 477, 3. *Walk. Ent. Mag.* i. 248, 3. *Micropeza vivida*, var.? *Desv. Essai Myod.* 742, 4.

- a. England.

*SEPSIS flavimana*, *Meig. Dipt.* v. 288, 4. *Walk. Ent. Mag.* i. 248, 4.

- μ. South of France. Presented by F. Walker, Esq.

*SEPSIS maculipes*, *Walk. Ent. Mag.* i. 248, 5.

- a. England. Presented by F. Walker, Esq.
- b. England.

*SEPSIS concinna*, *Walk. Ent. Mag.* i. 249, 6.

- a. England. Presented by F. Walker, Esq.

*SEPSIS ruficornis*, *Meig. Dipt.* v. 288, 5. *Macq. Hist. Nat. Dipt.* ii. 477, 4. *Walk. Ent. Mag.* i. 249, 7.

- a. England. Presented by F. Walker, Esq.

*SEPSIS nigripes*, *Meig. Dipt.* v. 289, 7. *Macq. Hist. Nat. Dipt.* ii. 478, 5. *Walk. Ent. Mag.* i. 249, 8. *Micropeza nitida*, *Desv. Essai Myod.* 743, 5.

- a. England. Presented by F. Walker, Esq.

*SEPSIS violacea*, *Meig. Dipt.* v. 289, 9. *Macq. Hist. Nat. Dipt.* ii. 478, 7. *Walk. Ent. Mag.* i. 249, 9. *Zett. Ins. Lapp.* 749, 6. *Micropeza pygmæa*, var.? *Desv. Essai Myod.* 743, 7.

- a. England.



*SEPSIS punctum*, Fall. *Ortal.* 22, 4. *Meig. Dipt.* v. 289, 10. *Macq. Hist. Nat. Dipt.* ii. 478, 8. *Walk. Ent. Mag.* i. 250, 10. *Zett. Ins. Lapp.* 749, 5. *Musca punctum*, Fabr. *Ent. Syst.* iv. 351, 159. *Coq. Illust.* 109, pl. 24, f. 14. *Musca*, &c., Schell. *Gen. Mouch.* pl. 4, f. 2. *M. stigma*, Panz. *Faun. Germ.* 60, 21. *Encycl. Meth.* pl. 394, f. 26. *Tephritis punctum*, Fabr. *Syst. Antl.* 324, 40. *Encycl. Meth.* pl. 396, f. 229. *Micropeza punctum*, Latr. *Gen. Crust.* iv. 355. *Nouv. Dict. d'Hist. Nat.* xx. 520. *M. cynipsea*, Desv. *Essai Myod.* 741, 1.

- a. England. Presented by F. Walker, Esq.
- b. England.
- c. France.
- d. ———? From Mr. Children's collection.

*SEPSIS linearis*, n. s., mas. *Nigra, thorace cyaneo-viridi, palpis nigris, antennis pedibusque fulvis, tarsis piceis, alis sublimpidis apice fusco maculatis.*

Body black, nearly linear, thinly clothed with short black hairs: head and chest beset with a few black bristles: eyes dark red; fore part flat, its facets much larger than those elsewhere: sucker and palpi black: feelers tawny, shorter than the face; third joint conical, full twice the length of the second; bristle black, bare, very slender, twice the length of the third joint: chest bluish green: abdomen sessile, slightly compressed, longer and a little narrower than the chest: legs tawny, clothed with short paler hairs; feet pitchy; claws black: wings nearly colourless; a brown spot on each tip; wing-ribs and veins pitchy; fourth longitudinal vein slightly curved upward towards the tip; lower cross-vein straight; poisers tawny. Length of the body 2 lines; of the wings 3 lines.

- a. Philippine Islands. From Mr. Wood's collection.

*SEPSIS vicaria*, n. s. *Æneo-viridis, capite nigro anticè subtusque fulvo, abdomine purpureo-cupreo, antennis pedibusque fulvis, tibiis posticis basi piceis, alis limpidis macula apicali fusca.*

Body shining: head and chest beset with a very few bristles: head black, tawny in front and beneath; epistoma not prominent: eyes dark red, convex; all the facets small: feelers tawny, shorter than the face; third joint conical, more than twice the length of the second; bristle black, very slender, more than twice the length of the third joint: chest brassy-green: abdomen coppery, petiolated, much longer than the chest: disk of the back tinged with purple: legs pale tawny, slender; tips of the feet darker; claws black; hind shanks pitchy for more than half the length from the base: wings

colourless; each with a small brown spot at the tip of the first longitudinal vein, and at some distance above the tip of the wing; wing-ribs tawny; veins black; fourth longitudinal vein very slightly curved upward after its junction with the lower cross-vein, which is straight; the space between the lower cross-vein and the middle cross-vein is less than that between the lower cross-vein and the tip of the fourth longitudinal vein; poisers yellow. Length of the body  $1\frac{1}{4}$  line; of the wings 2 lines.

a. Florida. Presented by E. Doubleday, Esq.

*SEPSIS referens*, n. s., mas. et fem. *Nigra, capite antico ferrugineo, abdomine purpureo, antennis nigris, pedibus fulvis, tibiis posticis subarcuatis, alis limpidis macula apicali fusca.*

Head and chest black, beset with very few black bristles: head ferruginous in front and beneath: eyes red, convex; all the facets very small: feelers black, shorter than the face; third joint conical, more than twice the length of the second; bristle bare, very slender, more than twice the length of the third joint: abdomen purple, petiolated, a little longer than the chest: legs tawny, clothed with very short black hairs, beset with very few black bristles; tips of the feet pitchy; claws black; fore thighs armed with black spines; hinder shanks very slightly curved: wings colourless, with a small brown spot a little above the tip; wing-ribs tawny; veins black, tawny at the base; poisers black, with tawny knobs; fourth longitudinal vein very slightly curved upward along the whole length after its junction with the lower cross-vein, which is straight, and very much nearer to the tip of the fourth longitudinal vein than to the middle cross-vein. Length of the body  $1\frac{1}{2}$  line; of the wings  $2\frac{1}{2}$  lines.

a. North America. Presented by the Entomological Club.

*SEPSIS nodosa*, n. s., fem. *Æneo-viridis, capite pectoreque piceis, thoracis lateribus ferrugineo vittatis, pedibus fulvis, femoribus posticis piceis, alis sublimpidis macula apicali fusca.*

Head pitchy: eyes black, convex; all the facets very small: head and chest beset with a few black bristles: chest dark green; a broad ferruginous stripe on each side: breast pitchy: abdomen brassy green, pointed at the tip, much longer than the chest; first segment forming a long obclavate petiole, mostly pitchy; second segment long, very convex beneath; third shorter; fourth and following very short: legs pale tawny, slender, clothed with very short tawny hairs; hind thighs pitchy, tawny at the base: hind shanks pitchy at the base; claws black: wings nearly colourless; a brown

spot on each tip; wing-ribs and veins black; fourth longitudinal vein slightly waving after its junction with the middle cross-vein, not angular where it joins the lower cross-vein, which is straight: poisers pitchy, with yellow knobs. Length of the body  $2\frac{1}{4}$  lines; of the wings 3 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

Group II. Nemopoda, *Desv. Essai Myod.* 743.

*SEPSIS cylindrica*, *Meig. Dipt.* v. 290, 12. *Zett. Ins. Lapp.* 748, 3. *Musca cylindrica*, *Fabr. Ent. Syst.* iv. 336, 104. *Musca*, &c., *Geoff. Ins.* 4i. 536, 84. *Calobata cylindrica*, *Fabr. Syst. Anth.* 263, 11. *Sepsis nitidula*, *Fall. Ortol.* 21, 2. *Nemopoda putris*, *Desv. Essai Myod.* 744, 1. *N. cylindrica*, *Walk. Ent. Mag.* i. 251, 1. *Macq. Hist. Nat. Dipt.* ii. 480, 1.

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

d. Upsal. Presented by F. Walker, Esq.

e. ———? From Mr. Children's collection.

*SEPSIS nigricornis*, *Meig. Dipt.* v. 291, 13. *Nemopoda nigricornis*, *Macq. Hist. Nat. Dipt.* ii. 481, 2. *Walk. Ent. Mag.* i. 252, 3.

a. England. Presented by F. Walker, Esq.

*SEPSIS stercoraria*. *Nemopoda stercoraria*, *Desv. Essai Myod.* 2512. *Walk. Ent. Mag.* i. 251, 2. *Macq. Hist. Nat. Dipt.* ii. 482, 7.

a. England. Presented by F. Walker, Esq.

*SEPSIS tarsalis*. *Nemopoda tarsalis*, *Walk. Ent. Mag.* i. 252, 4.

a. England. Presented by F. Walker, Esq.

*SEPSIS rufa*, n. s., mas. *Fulva*, abdomine ferrugineo piceoque vario, palpis antennis pedibusque fulvis, alis limpidis basi subfuscis

Body tawny, beset with a very few black bristles; sides of the face with a few bristles at the base; epistoma not prominent: eyes red; fore part flat, its facets much larger than those elsewhere: sucker and palpi tawny, the former clothed with paler hairs: feelers tawny, much shorter than the face; third joint conical, much longer than the second; bristle black, slender, bare, full thrice the length of the third joint: abdomen shining, much longer than the chest; first segment linear, long, forming a stout petiole, ferruginous towards the hinder border; second and following segments

together spindle-shaped; hind border of the second and fore border of the third pitchy: legs tawny, thinly clothed with short black hairs; claws black; middle of fore thighs armed with spines beneath: wings colourless, pale brown at the base; wing-ribs and veins black; lower cross-vein very slightly curved inward; poisers tawny. Length of the body 2 lines; of the wings 3 lines.

a. ———? From Mr. Children's collection.

*SEPSIS depilis*, n. s., fem. *Nigro-cyanea, obscura, antennis piceis, palpis pedibusque nigris, alis limpidis.*

Body bluish black, rather dull: head and chest beset with a very few black bristles: head above rather flat and slightly furrowed; epistoma not prominent: eyes pitchy, convex; facets of the fore part rather larger than those elsewhere: sucker and palpi black: feelers pitchy, shorter than the face; third joint tapering from the base to the tip, about thrice the length of the second; bristle black: abdomen spindle-shaped, narrower but hardly longer than the chest: legs black, rather long, clothed with very short black hairs: wings colourless; wing-ribs and veins pitchy; second and third longitudinal veins slightly converging along the whole length of their course beyond the angular junction of the third with the lower cross-vein. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*SEPSIS tricolor*, n. s., fem. *Nigra, capite nigro-cyaneo, abdomine rufo apice piceo, palpis antennis pedibusque piceis, femoribus fulvis, femoribus intermediis basi anticisque nigris, alis limpidis.*

Head and chest armed with a few black bristles: head dark blue, flat above: eyes pitchy, convex; all the facets small: sucker and palpi pitchy: feelers pitchy, shorter than the face; third joint long-conical, a little broader than the second and more than twice its length; bristle bare, very slender, full twice the length of the third joint: chest black, dull: abdomen red, shining, pitchy towards the tip, a little narrower and much longer than the chest, spindle-shaped, with a slight protuberance above at the base: legs long, pitchy, clothed with very short black hairs; hips and thighs tawny; fore thighs and tips of the middle thighs black: wings colourless; wing-ribs and veins black; second and third longitudinal veins very slightly converging along their whole length after the angular junction of the latter with the lower cross-vein, which has two extremely slight curves, the lower outward, the upper inward; poisers yellow, with pitchy knobs. Length of the body  $3\frac{1}{4}$  lines; of the wings 5 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

Group III. *Enicopus*, *Walk. Ent. Mag.* i. 253.

- SEPSIS annulipes*, *Meig. Dipt.* v. 292, 16, vii. 350, 6. *Curt. Brit. Ent.* 245. *Nemopoda annulipes*, *Macq. Hist. Nat. Dipt.* ii. 482, 8. *Enicopus annulipes*, *Walk. Ent. Mag.* i. 253, 1.  
 a. England. Presented by F. Walker, Esq.

Group IV. *Themira*, *Desv. Essai Myod.* 745.

- SEPSIS putris*, *Fall. Ortal.* 21, 1. *Meig. Dipt.* v. 292, 15. *Hal. Ent. Mag.* ii. 170. *Zett. Ins. Lapp.* 748, 1. *Musca putris*, *Linn. Syst. Nat.* ii. 993. *Berk. Syn.* i. 165. *List. Goed.* 132. *Goed. Ins.* i. pl. 73. *Merian, Eur. Ins.* pl. 43, f. 83. *Frisch. Ins.* i. pl. 7. *Musca*, var. *fimeti*, *Linn. Faun. Suec.* 1850. *M. putris*, *Fabr. Sp. Ins.* ii. 445, 51. *Mant. Ins.* ii. 347, 61. *Ent. Syst.* iv. 334, 92. *Gmel. Ed. Syst. Nat.* v. 2849, 89. *M. fimeti*, *Schrank, Faun. Boic.* iii. 2471. *Tephritis putris*, *Fabr. Syst. Antl.* 323, 34. *Sepsis putris*, *Fall. Ortal.* 21, 1. *Meig. Dipt.* v. 292, 15. *Themira putris*, *Walk. Ent. Mag.* i. 254, 1. *Cheligaster putris*, *Macq. Hist. Nat. Dipt.* ii. 479, 1.  
 a. England. Presented by F. Walker, Esq.  
 b. France.  
 c. Alten, Finmark. Presented by F. Walker, Esq.

- SEPSIS pilosa*. *Themira pilosa*, *Desv. Essai Myod.* 746, 1. *Walk. Ent. Mag.* i. 254, 2. *Sepsis superba*, *Hal. Ent. Mag.* ii. 170.  
 a. England. Presented by F. Walker, Esq.

- SEPSIS minor*, *Hal. Ent. Mag.* ii. 170. *Themira minor*, *Walk. Ent. Mag.* i. 255, 3.  
 a. England. Presented by F. Walker, Esq.

Group V. *Saltella*, *Desv. Essai Myod.* 746.

- SEPSIS scutellaris*. *Piophila scutellaris*, *Fall. Heteromyz.* 10, 3. *Meig. Dipt.* v. 397, 7. *Loew. Ent. Zeit. Stett.* ii. 188. *Saltella nigripes*, *Desv. Essai Myod.* 747, 2. *Walk. Ent. Mag.* i. 255, 1. *Macq. Hist. Nat. Dipt.* ii. 665, 1. *Meig. Dipt.* vii. 352, 1. *S. sellata*, *Hal. Ann. Nat. Hist.* 1839, 186. *Nemopoda ferruginea*, *Desv. Essai Myod.* 744, 1. *Macq. Hist. Nat. Dipt.* ii. 482, 9. *Meig. Dipt.* vii. 352, 13. *N. scutellata*,

*Macq. Hist. Nat. Dipt.* ii. 481, 3. *Meig. Dipt.* vii. 351, 8.  
*N. ruficoxa*, *Macq. Hist. Nat. Dipt.* ii. 481, 4. *Meig. Dipt.*  
 vii. 351, 9. *Pandora scutellaris*, *Hal. Ent. Mag.* i. 169. *P.*  
*basilis*, *Hal. Ent. Mag.* i. 169. *Anisophysa scutellaris*, *Macq.*  
*Hist. Nat. Dipt.* ii. 544, 1.

a. England. Presented by F. Walker, Esq.

### LAUXANIA, Latreille.

#### Group I. *Zett. Ins. Lapp.* 755.

*LAUXANIA cylindricornis*, *Fabr. Syst. Anth.* 212, 1. *Panz. Faun.*  
*Germ.* 105, 11. *Fall. Ortal.* 27, 1. *Meig. Dipt.* v. 296, 1.  
*Macq. Hist. Nat. Dipt.* ii. 506, 1. *Zett. Ins. Lapp.* 755, 1.  
*L. rufitarsis*, *Latr. Hist. Nat. Cr.* xiv. 390. *Musca chrysop-*  
*tera*, *Schrank, Faun. Boic.* iii. 2470.

a. England.

b. ———? From Mr. Children's collection.

c. Georgia. From Mr. Abbot's collection.

d. New York. Presented by E. Doubleday, Esq.

e. Nova Scotia. From Lieut. Redman's collection.

*LAUXANIA Elisæ*, *Wied. Meig. Dipt.* v. 297, 2. *Macq. Hist. Nat.*  
*Dipt.* ii. 508, 2.

a. England. Presented by F. Walker, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

*LAUXANIA ænea*, *Fall. Ortal.* 28, 3. *Meig. Dipt.* v. 297, 3. *Macq.*  
*Hist. Nat. Dipt.* ii. 508, 4. *Zett. Ins. Lapp.* 955, 2.

a. England.

b. ———? From Mr. Children's collection.

#### Group II. *Zett. Ins. Lapp.* 755.

*LAUXANIA lupulina*, *Fall. Ortal.* 29, 5. *Meig. Dipt.* v. 301, 11.  
*Macq. Hist. Nat. Dipt.* ii. 510, 12. *Zett. Ins. Lapp.* 755, 3.  
*Musca lupulina*, *Fabr. Syst. Anth.* 298.

a. England.

b. France.

c. New York. Presented by E. Doubleday, Esq.

d. Trenton Falls. Presented by E. Doubleday, Esq.

e. Nova Scotia. From Lieut. Redman's collection.

LONCHÆA, *Fallen.*

LONCHÆA nigra, *Meig. Dipt.* v. 305, 2. *Macq. Hist. Nat. Dipt.* ii. 512, 2.

a. England. Presented by F. Walker, Esq.

LONCHÆA tarsata, *Fall. Ortal.* 26, 3. *Meig. Dipt.* v. 305, 4, pl. 47, f. 32. *Macq. Hist. Nat. Dipt.* ii. 512, 4. *Zett. Ins. Lapp.* 754, 5.

a. England.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

LONCHÆA vaginalis, *Fall. Ortal.* 26, 2. *Meig. Dipt.* v. 307, 8. *Macq. Hist. Nat. Dipt.* ii. 513, 6. *Zett. Ins. Lapp.* 753, 1.

a. England. Presented by F. Walker, Esq.

b. England.

LONCHÆA cærulea, n. s., mas. et fem. *Cyanea, palpis nigris, antennis ferrugineis supra et apice nigris, pedibus nigris, tarsis fulvis, alis limpidis.*

Body bright blue, shining, clothed with black hairs: head and chest beset with black bristles: head black; sides of the face without bristles; epistoma slightly prominent: eyes bright red; fore part nearly flat, its facets a little larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers ferruginous, as long as the face, with a black stripe along the upper side; tips black; third joint full six times the length of the second, slightly decreasing in depth from the base to the tip, which is rounded: abdomen nearly olliptical, broader but hardly longer than the chest: oviduct of the female forming a slender tube, which is more than half the length of the abdomen: legs black, clothed with short black hairs; feet tawny, with black tips; foot-cushions yellow: wings colourless; wing-ribs and veins pale tawny, the latter darker towards the tips; lower cross-vein nearly straight; poisers tawny, with pitchy knobs. Length of the body  $2\frac{1}{4}$  lines; of the wings 5 lines.

a. Georgia. From Mr. Abbot's collection.

## TRYPETA, Meigen.

Group I. Ensina, Desv. *Essai Myod.* 751.

*Note.*—Many more groups may be formed of the exotic species of this genus, but these are here merely placed next to the European species to which they seem to be most allied.

TRYPETA Sonchi, *Meig. Dipt.* v. 345, 50. *Loew, Germ. Zeit. Ent.* v. 426, 79, *pl.* 2, *f.* 71. *Boie, Ent. Zeit. Stett.* viii. 318, 25. *Musca Sonchi*, *Linn. Syst. Nat.* ii. 998. *Gmel. Ed. Syst. Nat.* v. 2857, 121. *Tephritis Sonchi*, *Fall. Ortals* 14, 23. *Zett. Ins. Lapp.* 746, 10. *Trypeta obsoleta*, *Wied. Meig. Dipt.* v. 349, 60. *Tephritis Asteris*, *Haliday, Ann. Nat. Hist.* 1839, 186, var.? *Ensina Sonchi*, *Macq. Hist. Nat. Dipt.* ii. 474, 4. *Walk. Ent. Mag.* iii. 60, 1, *pl.* 1, *f.* 1. *E. chrysanthemi*, *Desv. Essai Myod.* 752, 1. *E. herbarum*, *Desv. Essai Myod.* 752, 2. *E. pratensis*, *Desv. Essai Myod.* 752, 3. *E. Linariæ*, *Desv. Essai Myod.* 753, 4. *E. Scorzonæræ*, *Desv. Essai Myod.* 753, 5. *E. Doronici*, *Desv. Essai Myod.* 753, 6.

- a. England. Presented by F. Walker, Esq.
- b. England.
- c. France.
- d. ———? From Mr. Children's collection.

Group II. Styliæ, Desv. *Essai Myod.* 754.Group III. Oxyna, Desv. *Essai Myod.* 755.

TRYPETA parietina, *Meig. Dipt.* v. 334, 33, *pl.* 50, *f.* 7. *Loew, Germ. Zeit. Ent.* v. 366, 35. *Boie, Ent. Zeit. Stett.* vii. 328, 27. *Wissmann, Ent. Zeit. Stett.* ix. 1848, 80, xii. *Musca parietina*, *Linn. Syst. Nat.* ii. 996, 107. *Faun. Suec.* 458, 1863. *Gmel. Ed. Syst. Nat.* i. 5, 2854, 107. *Fabr. Sp. Ins.* ii. 450, 79. *Ent. Syst.* iv. 350, 154. *Tephritis pantherina*, *Fall. Ortals* 10, 14. *Oxyna cinerea*, *Desv. Essai Myod.* 755, 1. *Ensina parietina*, *Macq. Hist. Nat. Dipt.* ii. 473, 1. *Acinia parietina*, *Walk. Ent. Mag.* iii. 76, 2, *pl.* 1, *f.* 21.

- a. England.



**TRYPETA** *Æsia*, n. s., fem. *Fusca, capite fulvo, abdominis apice nigro, palpis antennis pedibusque fulvis, alis fuscis maculis albis triginta ornatis.*

Body brown, thinly clothed with tawny hairs: head and chest beset with a few black bristles: head tawny: eyes brassy, varied with reddish purple: sucker, palpi, and feelers tawny: abdomen obconical, a little longer than the chest, hardly tapering, black towards the tip: legs tawny, clothed with short tawny hairs; claws black: wings dark brown, each adorned with about thirty white spots, these are various in size and shape, mostly round, more frequent along the border than on the disk; wing-ribs tawny; veins black, tawny towards the base; cross-veins straight, the space between them nearly equal in length to the lower cross-vein; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 2 lines.

a. St. James's Isle, Galapagos. Presented by C. Darwin, Esq.

**TRYPETA** *Viana*, n. s., fem. *Fulva, thoracis lateribus piceo maculatis, abdomine nigro trimaculato, palpis antennis pedibusque fulvis, alis fuscis maculis limpidis fulvisque ornatis basi limpidis.*

Body tawny, clothed with tawny hairs; head and chest beset with some long black bristles: head pale tawny; sides of the face without bristles; epistoma not prominent: eyes dark red; fore part nearly flat, its facets a little larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers pale tawny, shorter than the face; third joint conical, more than twice the length of the second; bristle black, slender, clothed with hairs of moderate length, tawny at the base, more than twice the length of the third joint: chest adorned on each side with an interrupted pitchy stripe, or rather with two pitchy spots, of which the hinder is interrupted by a slender tawny stripe; scutcheon pale tawny; hind scutcheon black: abdomen elliptical, a little shorter and broader than the chest, having a large black spot on the back near the base, and two smaller black spots on each side near the tip: legs pale tawny, clothed with tawny hairs; tips of the shanks armed with black spines; claws black; fore thighs armed beneath with black bristles: wings brown, colourless at the base; fore borders adorned with one tawny and two colourless marks, the first is small and very near the bristle of the fore border, the second at a short distance from the first is larger and triangular, the third is smaller, irregularly triangular and near the tip; disk of the wing adorned with three small colourless spots; two large irregular spots on the hind border advancing into the disk of the wing: wing-ribs tawny; veins pitchy, tawny on the colourless parts of the wing;

lower cross-vein straight, separated by its length from the middle cross-vein, slightly oblique; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$  lines.

a. ———?

Group IV. *Oxyphora*, Desv. *Essai Myod.* 757.

TRYPETA Westermanni, Meig. *Dipt.* v. 333, 32, pl. 1, f. 6. Loew, *Germ. Zeit. Ent.* v. 365, 34. *Musca vinulus*? Harr. *Ex.* 117, pl. 34, f. 21. *Oxyphora Cardui*, Desv. *Essai Myod.* 757, 2. *O. Westermanni*, Walk. *Ent. Mag.* iii. 61, 1, pl. 1, f. 2. *Tephritis Westermanni*, Macq. *Hist. Nat. Dipt.* ii. 461, 2.

a. ———?

TRYPETA Donysa, n. s. *Fusca, capite fulvo, thoracis lateribus abdomineque ferrugineis, hujus lateribus piceo vittatis, palpis antennis pedibusque fulvis, alis fuscis disco maculis fulvis marginique maculis limpidis ornatis.*

Head and chest beset with a few black bristles: head tawny, broad; face large, concave, its sides without bristles; epistoma prominent; peristoma pale yellow: eyes pitchy, slightly convex; all the facets of moderate size: sucker and palpi tawny: feelers bright tawny, not more than half the length of the face; third joint deep, slightly concave above, equally convex beneath, truncated at the tip, rather more than twice the length of the second; bristle black, tawny and stout towards the base: chest and breast dark brown, clothed with short tawny hairs; sides ferruginous: abdomen ferruginous, linear, pitchy along each side, a little narrower but hardly longer than the chest; hind borders of the segments tawny: legs tawny, clothed with short pale hairs; claws black; foot-cushions pale tawny: wings dark brown, rather broad, with some dark tawny marks in the disk, adorned with twelve or fourteen irregular colourless spots, which are disposed along the border, with the exception of a round dot near the middle cross-vein; wing-ribs and veins ferruginous; all the longitudinal veins slightly waving; lower cross-vein long, rather near the hind border, straight, with the exception of the upper end, which is very slightly curved outward; middle cross-vein very slightly curved outward, separated by much more than its length from the lower cross-vein; poisers ferruginous. Length of the body  $3\frac{1}{2}$  lines; of the wings 8 lines.

a. ———?

Group V. *Terellia*, *Desv. Essai Myod.* 758.

*TRYPETA serratulæ*, *Meig. Dipt.* v. 346, 53. *Loew, Germ. Zeit. Ent.* v. 419, 75, *pl.* 2, *f.* 70. *Musca serratulæ*, *Linn. Syst. Nat.* ii. 997, 118. *Faun. Suec.* 461, 1871. *Gmel. Ed. Syst. Nat.* i. v. 2856, 118. *Fabr. Mant, Ins.* ii. 352. *Sp. Ins.* ii. 453, 96. *Ent. Syst.* iv. 356, 182. *Turt.* iii. 620. *Dacus serratulæ*, *Fabr. Syst. Antl.* 278, 27. *Tephritis serratulæ*, *Fall. Ortol.* 14, 22. *Trypeta pallens*, *Wied. Meig. Dipt.* v. 347, 54, *pl.* 50, *f.* 5. *Wied. Analect.* 54, 120. *Auss. Zweif.* ii. 502, 49. *Terellia palpata*, *Desv. Essai Myod.* 758, 1. *T. luteola*, *Desv. Essai Myod.* 759, 2. *T. serratulæ*, *Walk. Ent. Mag.* iii. 62, 1, *pl.* 1, *f.* 3. *Macq. Hist. Nat. Dipt.* ii. 459, 1, var. ? *T. pallens* *Macq. Hist. Nat. Dipt.* ii. 460, 2, var. ? *T. Abrotani*, *Macq. Hist. Nat. Dipt.* ii. 460, 5. *T. longicauda*, *Meig. Dipt.* vii. 356, 80, var. ? *T. fuscicornis*, *Loew, Germ. Zeit. Ent.* v. 420, 76, var. ? *T. nigricoma*, *Loew, Germ. Zeit. Ent.* v. 422, 77, *pl.* 2, *f.* 69. *T. dentata*, *Loew, Germ. Zeit. Ent.* v. 425, 78.

a. England.

b. France.

c. ———? From Mr. Children's collection.

*TRYPETA florescentiæ*, *Meig. Dipt.* v. 321, 16, *pl.* 48, *f.* 25. *Loew, Germ. Zeit. Ent.* v. 338, 17, *pl.* 1, *f.* 15. *Boie, Ent. Zeit. Stett.* viii. 327, 11. *Musca florescentiæ*, *Linn. Faun. Suec.* 462, 1880. *Syst. Nat.* 999, 128. *M. ruficauda*, *Fabr. Ent. Syst.* iv. 353, 169. *Dacus ruficaudus*, *Fabr. Syst. Antl.* 276, 17. *Tephritis florescentiæ*, *Fall. Ortol.* 7, 9. *Macq. Hist. Nat. Dipt.* ii. 468, 29. *Terellia florescentiæ*, *Walk. Ent. Mag.* iii. 63, 3, *pl.* 1, *f.* 5.

a. England.

b. ———? From Mr. Children's collection.

*TRYPETA Winthemi*, var. ? *Meig. Dipt.* v. 320, 14, *pl.* 48, *f.* 26. *Loew, Germ. Ent. Zeit.* v. 341, 18, *pl.* 1, *f.* 14. *Tephritis Winthemi* ? *Macq. Hist. Nat. Dipt.* ii. 468, 28.

a. ———?

*TRYPETA colon*, *Meig. Dipt.* v. 346, 52. *Loew, Germ. Ent. Zeit.* v. 416, 74, *pl.* 2, *f.* 65, 66. *Tephritis Alciphron*, *Newm. Ent. Mag.* i. 505. *Terellia Alciphron*, *Walk. Ent. Mag.* iii. *pl.* 63, *f.* 4. *Terellia nebulosa*, *Macq. Hist. Nat. Dipt.* ii. 460, 3.

a. England.

TRYPETA Wenigeri? *Meig. Dipt.* v. 345, 51, *pl.* 50, *f.* 4. *Terellia*  
Wenigeri? *Macq. Hist. Nat. Dipt.* ii. 460, 4.

a. Ukraine. Presented by Dr. Dowler.

b. ———?

Group VI. *Prionella*, *Desv. Essai Myod.* 759.

Group VII. *Forellia*, *Desv. Essai Myod.* 760.

TRYPETA *Artemisiæ*, *Meig. Dipt.* v. 314, 4, *pl.* 48, *f.* 20. *Loew, Germ. Zeit. Ent.* v. 319, 5, *pl.* 1, *f.* 4. *T. continua*? *Meig. Dipt.* v. 312, 1, *pl.* 48, *f.* 16. *T. alternata*? *Meig. Dipt.* v. 313, 2, *pl.* 48, *f.* 17. *Loew, Germ. Zeit. Ent.* v. 315, 1, *pl.* 1, *f.* 1. *T. intermissa*? *Meig. Dipt.* v. 313, 3, *pl.* 48, *f.* 22. *T. Artemisiæ*, *Meig. Dipt.* v. 314, 4, *pl.* 48, *f.* 20. *T. Meigenii*? *Loew, Germ. Zeit. Ent.* v. 316, 2, *pl.* 1, *f.* 2. *Musca perelegand*, *Harr. Ex.* 74, *pl.* 21, *f.* 5. *M. Artemisiæ*, *Fabr. Ent. Syst.* iv. 351, 162. *Tephritis Artemisiæ*, *Fabr. Syst. Antl.* 317, 5. *T. apicalis*? *Zett. Ins. Lapp.* 744, 2. *Macq. Hist. Nat. Dipt.* ii. 462, 3. *T. alternata*, *Fall. Ortal.* 5, 3. *T. interrupta*, *Fall. Ortal.* 5, 4. *T. intermissa*? *Macq. Hist. Nat. Dipt.* ii. 462. *Forellia onopordi*? *Desv. Essai Myod.* 761, 1. *Acidia*? *Artemisiæ*, *Walk. Ent. Mag.* iii. 84, 2, *pl.* 1, *f.* 32, 33.

a. ———? From Mr. Children's collection.

TRYPETA *Zöe*, *Wied. Meig. Dipt.* v. 315, 7, *pl.* 48, *f.* 14, 15. *Loew, Germ. Zeit. Ent.* v. 317, 3, *pl.* 1, *f.* 3. *Tephritis Zöe*, *Macq. Hist. Nat. Dipt.* ii. 463, 9. *Zett. Ins. Lapp.* 744, 2. *Acidia*? *Zöe*, *Walk. Ent. Mag.* iii. 84, 3, *pl.* 1, *f.* 34.

a. England.

Group IX. *Acidia*, *Desv. Essai Myod.* 720.

TRYPETA *cognata*, *Wied. Meig. Dipt.* v. 315, 6, *pl.* 48, *f.* 19. *Loew, Germ. Zeit. Ent.* v. 320, 6, *pl.* 1, *f.* 5. *Boie, Ent. Stett.* viii. 1847, 326, 3, ix. 1848, 82, 5. *Tephritis cognata*, *Wied. Zool. Mag.* i. 76. *Macq. Hist. Nat. Dipt.* ii. 463, 7. *T. lucida*, *Fall. Suppl.* ii. 13. *Acidia cognata*, *Desv. Essai Myod.* 721, 2. *Walk. Ent. Mag.* iii. 83, 1, *pl.* 1, *f.* 31.

a. England.

b. ———? From Mr. Children's collection.

**TRYPETA** Alcinoe, n. s., mas. *Fulva, abdomine nigro, palpis antennis pedibusque fulvis, femoribus flavis, tarsis apice fuscis, alis fusco trifasciatis.*

Body tawny, smooth, shining, long and narrow, beset with a few black bristles: head yellow beneath, and having a pitchy spot on the crown in front of the eyelets; sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets very small: sucker pale tawny, clothed with tawny hairs; palpi pale tawny, beset with black bristles: feelers tawny, shorter than the face; third joint conical, full twice the length of the second; bristle black, feathered to the tip with very short hairs, more than twice the length of the third joint: abdomen black, spindle-shaped, much longer than the chest: legs tawny; thighs yellow; feet brown towards the tips; claws black: wings rather narrow, colourless, adorned with three brown bands; the first at one-third of the length of the wing from the base becomes indistinct at a little below the fore border, and disappears in the disk of the wing; the second, a little beyond, proceeds to the hind border, where it is joined to the third; the latter is very broad, and occupies one-third of the wing from the tip, it incloses a colourless spot on the hind border; wing-ribs and veins tawny, the latter pitchy in the brown parts of the wing; lower cross-vein slightly curved outward, parted by more than its length from the middle cross-vein, by more than twice its length from the tip of the wing, and by less than half its length from the hind border; poisers yellow. Length of the body 3 lines; of the wings  $5\frac{1}{2}$  lines,

a. ——— ?

#### Group X.

**TRYPETA** cornigera, n. s., mas. *Fulva, capite flavo quadricornuto, thorace nigro trimaculato, palpis antennis pedibusque flavis, alis limpidis angustis fusco vittatis.*

Body tawny, slender, beset with a few black bristles: head yellow, armed above with four black horns; these are as long as the head and somewhat widened towards the tips, which are truncated: face whitish, its sides without bristles; epistoma not prominent: eyes red; fore part slightly convex, its facets larger than those elsewhere: sucker tawny, clothed with yellow hairs; palpi yellow, beset with a few black bristles: feelers yellow, shorter than the face; third joint conical, very much longer than the second; bristle slender, downy, black towards the tip, near thrice the length of the third joint: disk of the chest slightly ferruginous; a black

square spot on the fore part near the neck, which is yellow : a small black spot on each side of the scutcheon : abdomen linear, narrower and much longer than the chest, thinly clothed with short black hairs : legs yellow, clothed with short black hairs ; claws black : wings colourless, long, narrow, adorned with a brown stripe, which extends from the base and occupies the whole of the tip, and forms three curves in its junction with the colourless part along the hind border ; there are some tawny intervals at the base and along the colourless part of the fore border, which extends near three-fourths of the length of the wing ; it is nearly interrupted by two outward curves of the brown part, and it has a small black spot by the black spine of the wing ; wing-ribs tawny ; veins black, tawny towards the base ; lower cross-vein very slightly curved outward, rather less than its length distant from the middle cross-vein, which is straight, perpendicular, and less than half the length of the lower cross-vein ; longitudinal veins very slightly waving ; poisers yellow. Length of the body  $2\frac{1}{2}$  lines ; of the wings 6 lines.

a. North America ? Presented by the Entomological Club.

*TRYPETA cornifera*, n. s., mas. *Fulva, capite flavo, quadricornuto, thorace nigro-trimaculato, palpis antennis pedibusque flavis, alis limpidis angustis fulvo variis.*

Body tawny, slender, beset with a few black bristles : head yellow, armed above with four black horns ; these are as long as the head and somewhat widened towards the tips, which are truncated : face whitish, its sides without bristles ; epistoma not prominent : eyes red ; fore part slightly convex, its facets larger than those elsewhere : sucker tawny, clothed with yellow hairs ; palpi yellow, beset with a few black bristles : feelers yellow, shorter than the face ; third joint conical, very much longer than the second : bristle slender, downy, black towards the tip, nearly thrice the length of the third joint : disk of the chest slightly ferruginous ; a black square spot on the fore part, near the neck, which is yellow ; a small black spot on each side of the scutcheon : abdomen linear, narrower and much longer than the chest, thinly clothed with short black hairs : legs yellow, clothed with short black hairs ; claws black : wings colourless, long, narrow, adorned (excepting the hind border) with tawny marks from the base to the tip ; these have some slight brownish intervals, include four oblong, colourless spots, and are obliquely interrupted at three-fourths of the length ; beyond this they form a semicircular stripe, whose concave side fronts the hind border, towards which it sends forth a very oblique branch ; wing-ribs and veins tawny ; lower cross-vein hardly curved outward, rather less than its length distant from the middle cross-vein, which is

slightly oblique, stout, and about half the length of the lower cross-vein; longitudinal veins very slightly waving; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. ———?

Group XI. Xyphosia, *Desv. Essai Myod.* 762.

TRYPETA Arnicæ, *Meig. Dipt.* v. 333, 31. *Musca Arnicæ*, *Linn. Syst. Nat.* ii. 997, 115. *Faun. Suec.* 1872. *Gmel. Ed. Syst. Nat.* i. 5, 2856, 119. *Fabr. Ent. Syst.* iv. 352, 166. *Schrank, Ins. Austr.* 959. *Aldrov. Ins.* 346, pl. 1, f. 5. *Scop. Ent. Carn.* 941.\* *Musca flava*, &c., *Geoff. Ins.* ii. 498, 12. *M. publicaria*, *Schrank, Ins. Austr.* 476, 968. *Gmel. Ed. Syst. Nat.* i. 5, 2863, 306. *M. onopordinis?* *Don. Ins.* ii. 67, pl. 62. *Turt.* iii. 622. *M. arcuata*, *Fabr. Mant. Ins.* ii. 352, 105. *Sp. Ins.* ii. 451, 86. *Ent. Syst.* iv. 353, 170. *Gmel. Ed. Syst. Nat.* v. 2856, 242. *Panz. Faun. Germ.* 98, 22. *Trupanea sphærocephala*, *Schrank, Faun. Boic.* iii. 2515. *Dacus arcuatus*, *Fabr. Syst. Argl.* 277, 19. *Tephritis Arnicæ*, *Fabr. Syst. Antl.* 316, 1. *Latr. Gen. Crust.* iv. 365. *Dict. d'Hist. Nat.* 24, 196, 385. *Fall. Ortol.* 8, 10. *Macq. Hist. Nat. Dipt.* ii. 461, 1. *Xyphosia cirsiorum*, *Desv. Essai Myod.* 762, 1. *Forellia Arnicæ*, *Walk. Ent. Mag.* i. 64, 1, pl. 1, f. 6. *Trypeta flava*, *Loew, Germ. Zeit. Ent.* v. 363, 33. *Boie, Ent. Stett.* viii. 326, 5, ix. 82, 6.

a. England.

b. France.

c. ———? From Mr. Children's collection.

Group XII. Sitaria, *Desv. Essai Myod.* 763.

Group XIII. Orellia, *Desv. Essai Myod.* 765.

TRYPETA Wiedemanni, *Meig. Dipt.* v. 320, 15, pl. 49, f. 2. *Loew, Germ. Zeit. Ent.* v. 342, 19, pl. 1, f. 16. *Tephritis Wiedemanni*, *Macq. Hist. Nat. Dipt.* ii. 466, 22. *Orellia flavicans*, *Desv. Essai Myod.* 765, 1. *O. Wiedemanni*, *Walk. Ent. Mag.* iii. 66, 1, pl. 1, f. 7.

a. South of France. Presented by the Entomological Club.

b. ———?

## Group XIV. Tephritis, Latreille.

TRYPETA cornuta, *Meig. Dipt.* v. 318, 12, pl. 48, f. 2. *Loew, Germ. Zeit. Ent.* v. 338, 16. *Boie, Ent. Stett.* viii. 327, 10, ix. 81, 2. *Musca cornuta, Fabr. Ent. Syst.* iv. 357, 186. *Scatophaga cornuta, Fabr. Syst. Anth.* 209, 28. *Tephritis cornuta, Fall. Ortal.* 4, 1. *Curt. Brit. Ent.* vi. pl. 231. *Macq. Hist. Nat. Dipt.* ii. 468, 30. *Walk. Ent. Mag.* iii. 67, 1, pl. 1, f. 8.

a. England.

b. ———? From Mr. Children's collection.

TRYPETA Lappæ, *Meig. Dipt.* v. 318, 11. *Loew, Germ. Zeit. Ent.* v. 334, 14, pl. 1, f. 12? *Musca Arctii, Panz. Faun. Germ.* 22, 23. *M. Lappæ? Cederh. Prodr.* 319, pl. 3, K. *Tephritis Arctii? Desv. Essai Myod.* 767, 6. *T. Lappæ, Macq. Hist. Nat. Dipt.* ii. 467, 26. *Walk. Ent. Mag.* iii. 67, 2, pl. 1, f. 6. *Tephritis octopunctata? Macq. Hist. Nat. Dipt.* ii. 466, 23. *Trypeta octopunctata? Loew, Germ. Zeit. Ent.* v. 336, 15, pl. 1, f. 13.

a. England.

b. France.

c. ———? Presented by the Entomological Club.

d. ———? Presented by F. Walker, Esq.

TRYPETA Tussilaginis, *Meig. Dipt.* v. 319, 13, pl. 48, f. 27. *Loew, Germ. Zeit. Ent.* v. 332, 13, pl. 1, f. 11. *Boie, Ent. Stett.* viii. 328, 26, ix. 82, 7. *Musca Tussilaginis, Fabr. Mant. Ins.* ii. 353, 122. *Sp. Ins.* ii. 454, 101. *Ent. Syst.* iv. 359, 193. *Gmel. Ed. Syst. Nat.* v. 2858, 250. *Trupanea Acanthi, Schrank, Faun. Boic.* iii. 2509. *Dacus Tussilaginis, Fabr. Syst. Anth.* 277, 24. *Tephritis cylindrica? Desv. Essai Myod.* 767, 4. *T. impuncta, Desv. E. M.* 767, 5. *T. Arctii? Desv. E. M.* 767, 6. *T. Tussilaginis, Walk. Ent. Mag.* iii. 68, 3, pl. 1, f. 10. *Macq. Hist. Nat. Dipt.* ii. 464, 13.

a. England.

b. France.

c. ———? From Mr. Children's collection.

TRYPETA Arctii, *Meig. Dipt.* v. 317, 10, pl. 48, f. 28. *Loew, Germ. Zeit. Ent.* v. 330, 12, pl. 1, f. 10. *Musca Arctii, Deg. Ins.* vi. 21, 16, pl. 2, f. 6-14. *M. punctata, Schrank, Ins. Aust.* 963. *Trupanea punctata, Schrank, Faun. Boic.* iii. 2510. *Tephritis solstitialis, Panz. Faun. Germ.* 103, 22. *T. Arctii, Fall. Ortal.*



4, 2. *T. Jaceæ*, *Desv. Essai Myod.* 766, 1. *T. dorsalis*, *Desv. E. M.* 766, 2. *Macq. Hist. Nat. Dipt.* ii. 467, 27. *T. pusilla*, *Desv. E. M.* 766, 3. *T. cylindrica*? *Desv. E. M.* 767, 4. *T. abdominalis*, *Desv. E. M.* 768, 7. *T. Arctii*, *Macq. Hist. Nat. Dipt.* ii. 467, 25. *Walk. Ent. Mag.* iii. 68, 4, pl. 1, f. 11. *Trypeta punctata*? *Loew, Germ. Zeit. Ent.* v. 328, 11.

a. England.

b. France.

c. South of France. Presented by the Entomological Club.

*TRYPETA Acidusa*, n. s., fcm. *Fulva, thoracis lateribus flavo vittatis, abdomine fusco, terebra fulva apice nigra, palpis antennis pedibusque fulvis, alis limpidis fulvo fuscoque vittatis et fasciatis.*

Body tawny: head and chest beset with some long black bristles, which form a fringe on each side of the crown; there is also a cross row of short black bristles behind the eyes: head adorned with whitish bloom; sides of the face without bristles; epistoma very prominent: eyes purple, flat and partly green in front, where the facets are much larger than elsewhere: sucker ferruginous, jointed, bent, clothed with tawny hairs; palpi pale tawny, beset with black bristles: feelers tawny, as long as the face; third joint more than four times the length of the second, downy, nearly linear, but very slightly decreasing in depth towards the tip, which is rounded; bristle black, slender, downy, tawny at the base, very much more than twice the length of the third joint: chest clothed with tawny down; a yellow stripe on each side: abdomen (excluding the tube) pale brown, oval, clothed with black hairs, narrower and shorter than the chest; tube tawny, with a black tip, cylindrical, longer, and much narrower than the fore part: legs tawny, clothed with short tawny hairs; claws black; fore thighs armed beneath with black bristles: wings colourless, varied with tawny, which proceeds from the base and divides into two forks; the upper fork is darker than the other, and forms a regular stripe along the fore border for half the length of the wing; the lower fork is curved, and joins the tip of the upper, with which by afterwards attaining the fore border of the wing it encloses a small colourless space; a little beyond this it sends forth two branches (united at the base) to the hind border, and is continued to the tip of the wing; tawny parts partly bordered with pale brown; wing-ribs and veins tawny; veins pitchy in the tawny parts of the wing; longitudinal veins straight, with the exception of the third, which is slightly waving, and more deeply curved near the tip; lower cross-vein oblique, nearly straight, divided by rather less than its length from the

middle cross-vein, which is also nearly straight, but less oblique than the other; poisers tawny. Length of the body 5 lines; of the wings 8 lines.

a. Jamaica. From Mr. Gosse's collection.

TRYPETA Ethalea, n. s., fem. *Fulva, terebra longa apice nigra, palpis antennis pedibusque fulvis, alis limpidis fulvo vittatis fuscoque variis.*

Body tawny: head and chest beset with some long black bristles, of which there is a row on each side of the crown, there is also a cross-fringe of short black bristles behind the eyes; epistoma very slightly prominent; sides of the face without bristles: eyes red; fore part flat, its facets much larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, as long as the face; third joint conical, rounded at the tip, nearly thrice the length of the second; bristle black, downy, slender, tawny at the base, much more than twice the length of the third joint: chest and abdomen clothed with short bright tawny hairs: abdomen oval and shorter than the chest, with the exception of the tube; the latter is nearly cylindrical, about as long as the preceding part, and tapers slightly to the tip, which is black: legs tawny, clothed with short tawny hairs; claws black; fore thighs armed beneath with black bristles: wings colourless, adorned with tawny marks, which form a fork from the base of the wing; the upper branch is a regular stripe along the fore border for one half of the length, and includes a ferruginous band near its tip; the lower branch is much curved and joins the tip of the upper, and thence proceeds to the fore border, which it accompanies to the tip of the wing, leaving a triangular colourless space between; parallel to it, and a short distance beneath is another angular band; these tawny marks are clouded with brown, and there are two dark brown dots near the base of the second longitudinal vein; wing-ribs and veins tawny; longitudinal veins slightly waving, the third curved upward at the tip; lower cross-vein separated by a little less than its length from the middle cross-vein, and having two very indistinct curves, the upper outward, the lower inward; middle cross-vein straight, slightly oblique. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

a. Para. Presented by Reginald Graham, Esq.

**TRYPETA** Ocrezia, n. s., fem. *Fulva, terebra longa apice nigra, palpis piceis, antennis pedibusque fulvis, alis limpidis fulvo vittatis.*

Head and chest beset with long black bristles, which form a row on each side of the crown, and there is a cross fringe of short black bristles behind the head: head tawny; sides of the face without bristles; epistoma slightly prominent: eyes red; fore part flat, its facets larger than those elsewhere; sucker pitchy, clothed with tawny hairs: palpi pitchy, beset with black bristles: feelers tawny, as long as the face; third joint near thrice the length of the second, slightly decreasing in depth from the base to the tip, which is rounded; bristle black, slender, downy, tawny at the base, much more than twice the length of the third joint: chest and breast dark tawny: chest clothed with short black hairs: abdomen dark tawny, rather thickly clothed with short black hairs; the part before the tube is shorter and narrower than the chest, and slightly increases in breadth from the base to the tip; the tube is cylindrical, longer than the preceding part, and slightly decreases in breadth from the base to the tip, which is black: legs tawny, clothed with short black hairs; claws black; fore thighs thickly armed beneath with black bristles: wings colourless, adorned with tawny stripes, which proceed in two branches from the base of the wing; the upper fork has a colourless interval between it and the fore border, which it afterwards joins, and shortly terminates at half the length of the wing; the lower fork is much curved, joins the tip of the first, and there (including a triangular colourless spot) attains the fore border, and proceeds to the tip of the wing; parallel below it there is a forked stripe, which is imperfect, nearly half of the tip fork being wanting; these tawny marks are slightly streaked with brown; wing-ribs tawny; veins tawny, pitchy in the tawny parts of the wing; longitudinal veins slightly waving; third longitudinal vein much curved upward near the tip; lower cross-vein nearly straight, slightly oblique, separated by less than its length from the middle cross-vein, which is straight and oblique; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 7 lines.

a. Jamaica. From Mr. Gosse's collection.

**TRYPETA** Hysia, n. s., fem. *Fusca, capite fulvo, abdomine nigropiceo basi fulvo apice fusco, palpis fulvis, antennis piceis basi fulvis, pedibus fuscis, alis limpidis fusco quadrivittatis.*

Body brown, clothed with short tawny hairs: head and chest beset with a few black bristles: head tawny, ferruginous between the eyelets and the base of the feelers: eyes brassy; fore part flat, its facets very much larger than those elsewhere: sucker ferrugi-

nous, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers pitchy, shorter than the face; first and second joints tawny; third joint linear, tawny at the base, obliquely truncated at the tip, near thrice the length of the second joint: abdomen pitchy black, tawny at the base, pale brown and slightly tapering at the tip; tube yellow: legs brown, clothed with short black hairs; hips tawny; knees ferruginous; claws black: wings colourless, pale brown along the fore border at the base, and adorned with two forked, darker brown marks, which form four bands; the inner fork of the first joins the brown at the base of the wing, and is shorter than the outer, which includes the middle cross-vein; the inner fork of the second extends all across the wing and includes the lower cross-vein, and the outer fork extends along the fore border to a little below the tip of the wing; wing-ribs and veins black; lower cross-vein curved inward; poisers pitchy. Length of the body 2 lines; of the wings 4 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

Group XV. *Urophora*, Desv. *Essai Myod.* 769.

TRYPETA Cardui, Meig. *Dipt.* v. 326, 23, pl. 49, f. 9. Loew, *Germ. Zeit. Ent.* v. 352, 27. Boie, *Ent. Zeit. Stett.* viii. 327, 15. Musca Cardui, Linn. *Syst. Nat.* ii. 998, 126. *Faun. Suec.* 1876, 1063. *Deg. Ins.* vi. 49, 18. Gmel. *Ed. Syst. Nat.* i. 5. 2858, 126. *Fabr. Mant. Ins.* ii. 353, 120. *Sp. Ins.* ii. 454, 100. *Ent. Syst.* iv. 359, 191. *Stew. El.* ii. 263. *Turt.* iii. 621. *Reaum. Ins.* iii. 2, pl. 45, f. 12-16. Geoff. *Ins.* vi. 11, 496, 8. *Goed. Ins.* i. 50. *List. Goed.* 313, 102, pl. 129. *Blank. Ins.* 189, pl. 16, f. T. *Leeuwenh.* 58, f. 10. *Trupanea Cardui*, Schrank, *Faun. Boic.* 2514. *Tephritis Cardui*, *Fabr. Syst. Antl.* 321, 21. *Latr. Gen. Crust.* iv. 355. *Règne. Anim.* v. 534. *Lam. Anim. Sans. Vertéb.* iii. 364, 2. *Urophora cardui*, *Macq. Hist. Nat. Dipt.* ii. 456, 6. *Walk. Ent. Mag.* iii. 69, 1. *U. Reaumurii*, Desv. *Essai Myod.* 770, 4. *U. liturata*, Desv. *E. M.* 771, 5. *U. Sonchi*, Desv. *E. M.* 771, 6. *U. Centaureæ*, Desv. *E. M.* 772, 7. *U. Dejeanii*, Desv. *E. M.* 772, 8. *Scatophaga flexuosa*, *Germ. Faun.* ii. 25.

a. England.

b. France.

*TRYPETA aprica*, *Meig. Dipt. v. 329, 26, pl. 49, f. 13. Loew, Germ. Zeit. Ent. v. 359, 30, pl. 1, f. 27. Musca solstitialis, Fabr. Sp. Ins. ii. 454, 103. Ent. Syst. iv. 359, 195. Tephritis solstitialis, Fabr. Syst. Antl. 321, 25. T. aprica, Fall. Ortal. 7, 7. Urophora pugionata, Walk. Ent. Mag. iii. 70, 2, pl. 1, f. 13.*

a. England.

b. France.

*TRYPETA solstitialis*, *Meig. Dipt. v. 329, 27, pl. 49, f. 10. Loew, Germ. Zeit. Ent. v. 355, 29, pl. 1, f. 25, 26. Boie, Ent. Stett. viii. 327, 17, ix. 83, 10. Musca solstitialis, Linn. Syst. Nat. ii. 999, 127. Faun. Suec. 1879. Gmel. Ed. Syst. Nat. i. v. 2858, 127. Berk. Syn. i. 165? Stew. El. ii. 263. Turt. iii. 621. Cederh. Prodr. 318, 1006. Don. ix. 15, pl. 294? Fabr. Sp. Ins. ii. 454, 103. Ent. Syst. iv. 359, 195. Musca, &c., Geoff. Ins. ii. 499, 14. M. Dauci, Fabr. Mant. Ins. ii. 353, 118. Ent. Syst. iv. 358, 187. Gmel. Ed. Syst. Nat. v. 2857, 248. M. stylata, Fabr. Mant. Ins. ii. 351, 104. Sp. Ins. ii. 451, 85. Ent. Syst. iv. 353, 168. Gmel. Ed. Syst. Nat. v. 2855, 241. Stew. El. ii. 262. Turt. iii. 619. M. Jacobæ, Panz. Faun. Germ. 97, 22. Trupanea Cirsii, Schrank, Faun. Boic. iii. 2505. T. Leucacanthi, Schrank, Faun. Boic. iii. 2507. Dacus stylatus, Fabr. Syst. Antl. 275, 13. D. hastatus, Fabr. Syst. Antl. 276, 15. D. Dauci, Fabr. Syst. Antl. 277, 22. Tephritis solstitialis, Fabr. Syst. Antl. 321, 25. Latr. Gen. Crust. iv. 355. Fall. Ortal. 6, 5. Lam. Anim. Sans. Verteb. iii. 364, 1. T. stylata, Fabr. Syst. Antl. 275, 13. T. Jacobæ, Fall. Ortal. 66. T. aprica, Fall. Ortal. 7, 7. Trypeta stylata, Meig. Dipt. v. 327, 24, pl. 49, f. 12. T. cuspidata, Meig. Dipt. v. 328, 25, pl. 49, f. 5. T. aprica, Meig. Dipt. v. 329, 26, pl. 49, f. 13. T. pugionata, Meig. Dipt. v. 330, 28, pl. 49, f. 11. Urophora Cardui, Desv. Essai Myod. 769. 1. U. solstitialis, Macq. Hist. Nat. Dipt. ii. 457, 9. Walk. Ent. Mag. iii. 71, 3, pl. 1, f. 14. U. cuspidata, Macq. Hist. Nat. Dipt. ii. 457, 8.*

a. England.

b. France.

c. South of France. Presented by the Entomological Club.

d. ———? From Mr. Children's collection.

*TRYPETA fasciata*, *Meig. Dipt. v. 322, 18, pl. 49, f. 1. Loew. Germ. Zeit. Ent. v. 345, 21, pl. 1, f. 18. Scatophaga fasciata, Fabr. Syst. Antl. 210, 29. Tephritis fasciata, Macq. Hist. Nat. Dipt. ii. 466, 21.*

a. Aix-la-chapelle. Presented by F. Walker, Esq.

*TRYPETA vespertina*, Loew. *Germ. Zeit. Ent.* v. 387, 50, pl. 1, f. 36.  
a. Aix-la-chapelle. Presented by F. Walker, Esq.

*TRYPETA Cluana*, n. s., mas. et fem. *Purpureo-cyanea cano tecta, capitis vertice ferrugineo, terebra basi ferruginea, palpis fulvis, antennis ferrugineis nigro vittatis, pedibus purpureis, tarsis fulvis, alis limpidis fusco quadrifasciatis.*

Body bright deep metallic blue, clothed with black hairs and bristles: head adorned with a white covering, thinly clothed beneath with whitish hairs; crown deep ferruginous, except a white stripe along each side; a large yellowish brown spot on each side between the eyes and the sides of the peristoma; sides of the face without bristles; epistoma prominent; sucker pitchy, clothed with tawny hairs; palpi tawny, broad, beset with black bristles: eyes red, very oblong; fore part nearly flat, its facets a little larger than those elsewhere; a black stripe along the face from the eyelets to the epistoma: feelers ferruginous, much shorter than the face, striped above with black; third joint nearly flat above, convex beneath, slightly truncated at the tip, full thrice the length of the second; bristle black, downy, tawny at the base, very slender, full thrice the length of the third joint: sides of the chest purplish: abdomen obconical, as long as or a little longer than the chest, adorned with a hoary tinge on the hind border of each segment, ferruginous at the base of the tube, which is shorter than the preceding part, sutures tinged with purple: legs dark purple, clothed with short black hairs; shanks almost black; feet bright tawny, with black tips; foot-cushions tawny: wings colourless, adorned with four broad dark brown bands, the first near the base; second and third joining each other and forming an angle beneath the fore border, and including the cross-veins, second not quite reaching the hind border, the fourth along the fore border, extending a little beyond the tip; wing-ribs pale yellow; veins black, yellow at the base and here and there in the colourless parts of the wing; lower cross-vein nearly perpendicular, very slightly curved outward, separated by more than its length from the middle cross-vein, which is oblique; the other two cross-veins are beyond one-third of the length of the wing from its base; longitudinal veins very slightly waving; scales white, small; poisers yellowish white. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. New Holland. Presented by the Entomological Club.

b. New Holland.

**TRYPETA** Narytia, n. s., mas. *Fusca cinereo tecta, capite fulvo, abdomine piceo basi fulvo, palpis antennis pedibusque fulvis, alis limpidis fusco quadrifasciatis.*

Body brown, thinly clothed with short black hairs: head and chest beset with very few black bristles: head tawny, adorned with white bloom, which occupies only the sides of the crown; sides of the face without bristles; epistoma not prominent: eyes red; fore part slightly convex, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi tawny: feelers tawny, shorter than the face; third joint downy, nearly conical, rather more than twice the length of the second, slightly angular on the upper side of the tip; bristle black, bare, tawny and stout at the base, rather more than twice the length of the third joint: chest covered with gray bloom: abdomen pitchy, shining, spindle-shaped, tawny at the base, much longer and a little narrower than the chest: legs tawny, clothed with short black hairs; claws black: wings colourless, adorned with four brown bands; the first, second and fourth bands extend but little below the fore border; the third attains the hind border and includes the two cross-veins; wing-ribs and veins tawny, the latter dark towards the tips and in the dark parts of the wings; the distance between the cross-veins is less than the length of the middle cross-vein; poisers tawny. Length of the body  $1\frac{1}{4}$  lines; of the wings  $2\frac{1}{2}$  lines.

a. Florida. Presented by E. Doubleday, Esq.

**TRYPETA** Avala, n. s., fem. *Nigra, capite antico ferrugineo, palpis fulvis, antennis ferrugineis, pedibus fulvis, tarsis piceis, alis limpidis fusco quadrifasciatis.*

Body black, thinly clothed with short black hairs: head and chest beset with a few black bristles: head ferruginous in front; face hoary, its sides without bristles; epistoma prominent: sucker black, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers ferruginous, shorter than the face; third joint conical, about twice the length of the second; bristle black, slender, bare, much more than thrice the length of the third joint: abdomen obconical, a little longer than the chest: legs tawny, clothed with short black hairs; shanks pitchy; feet dark tawny; claws black: wings colourless, adorned with four broad dark brown bands, which are divided by equal intervals, the first at the base, the fourth at the tip; wing-ribs and veins pale tawny; veins black in the dark parts of the wing; the distance between the cross-veins is full twice the length of the lower cross-vein; the latter is very slightly curved outward; poisers yellow. Length of the body  $1\frac{1}{4}$  line; of the wings  $2\frac{1}{2}$  lines.

a. Jamaica. From Mr. Gösse's collection.

**TRYPETA Atilia**, n. s., mas. *Nigra, capite antennisque fulvis, pedibus flavis, femoribus nigris, alis fuscis basi maculisque quinque albis.*

Body black: head and chest thinly beset with black bristles: crown and front of the head tawny, sides of the face without bristles; epistoma hardly prominent: eyes red; facets of the fore part larger than those elsewhere: sucker and palpi black? feelers tawny: abdomen linear, clothed with short black hairs, a little longer and narrower than the chest: legs yellow, clothed with short black hairs; thighs black; fore thighs armed with black bristles; claws black: wings very dark brown, white at the base, and adorned with five white marks; one of these is triangular, and rests on the fore border; the other four are more linear, and are open to the hind border; the one nearest to the base of the wings is linear, the second is small; the third and the fourth are widest along the border of the wing, and the fourth is longer than the third; wing-ribs tawny; veins black, tawny in the white parts of the wing; longitudinal veins very slightly waving; lower cross-vein a little oblique, slightly curved outward, distant by much less than its length from the middle cross-vein, which is straight and perpendicular; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. China. Presented by G. T. Lay, Esq.

**TRYPETA Tucia**, n. s., fem. *Nigra, capite fulvo, palpis antennis pedibusque fulvis, femoribus nigris, alis limpidis fusco quadrisfasciatis.*

Body black: head and chest beset with a few black bristles: head tawny; sides of the face without bristles; epistoma slightly prominent: eyes red; facets of the fore part larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, nearly as long as the face; third joint conical, less than twice the length of the second; bristle black, downy at the base, nearly twice the length of the third joint: abdomen nearly oval, not longer than the chest; tube truncated-obconical, full one fourth of the length of the preceding part: legs tawny, clothed with short black hairs; thighs black: wings colourless, adorned with four broad brown bands, these are all united along the fore border, where they include a triangular, colourless spot; wing-ribs and veins tawny, the latter black in the brown parts of the wing; longitudinal veins straight; lower cross-vein straight, slightly oblique, separated by less than half its length from the middle cross-vein, which is straight and perpendicular; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings  $2\frac{1}{2}$  lines.

a. North Bengal. From Miss Campbell's collection.



Group XVI. *Aciura*, *Desv. Essai Myod.* 773.

- TRYPETA signata*, *Meig. Dipt.* v. 332, 30, *pl.* 49, *f.* 4. *Bach, Ent. Zeit. Stett.* iii. 263. *Musca cerasi*? *Linn. Faun. Suec. Ed.* 1, 1061. *F. S. Ed.* 2, 1878. *M. solstitialis*, *Sulzer, Ins.* 216, *pl.* 28, *f.* 11. *Urophora liturata*, *Desv. Essai Myod.* 771, 5. *U. signata*, *Macq. Hist. Nat. Dipt.* ii. 458, 11. *Tephritis Hebe*, *Newman, Ent. Mag.* i. 506. *Sphenella signata*, *Walk. Ent. Mag.* iii. 73, *pl.* 1, *f.* 17. *Trypeta Cerasi*, *Loew, Germ. Zeit. Ent.* v. 361, 32. *Boie, Ent. Zeit. Stett.* viii. 327, 18.
- a. England.

Group XVII. *Sphenella*, *Desv. Essai Myod.* 773.

- TRYPETA marginata*, *Meig. Dipt.* v. 322, 17, *pl.* 49, *f.* 15. *Loew, Germ. Zeit. Ent.* v. 344, 20, *pl.* 1, *f.* 17. *Boie, Ent. Zeit. Stett.* viii. 327, 12. *Tephritis marginata*, *Fall. Ortal.* 7, 8, 17, *pl.* 49, *f.* 15. *Macq. Hist. Nat. Dipt.* ii. 465, 18. *Sphenella Linariæ*, *Desv. Essai Myod.* 774, 1. *S. marginata*, *Walk. Ent. Mag.* iii. 73, *pl.* 1, *f.* 18.
- a. England. Presented by F. Walker, Esq.

Group XVIII. *Urellia*, *Desv. Essai Myod.* 774.

- TRYPETA stellata*, *Loew, Germ. Zeit. Ent.* v. 411, 71. *Boie, Ent. Zeit. Stett.* viii. 328, 23. *Musca stellata*, *Fuessl. Verz.* 11, 25. *Sulzer, Ins.* 216, *pl.* 28, *f.* 12. *M. radiata*, *Fabr. Ent. Syst. Suppl.* 565, 157. *Musca*, &c., *Geoff. Ins.* ii. 494, 3. *Trupanea radiata*, *Schrank, Faun. Boic.* iii. 2525. *Tephritis radiata*, *Fabr. Syst. Antl.* 319, 16. *Panz. Faun. Germ.* 103, 21. *Fall. Ortal.* 12, 19. *T. terminata*, *Fall. Ortal.* 13, 20. *Trypeta radiata*, *Meig. Dipt.* v. 343, 48, *pl.* 50, *f.* 3. *T. terminata*, *Meig. Dipt.* v. 343, 47, *pl.* 50, *f.* 10. *Urellia Calcitrapæ*, *Desv. Essai Myod.* 774, 1. *U. Parisiensis*, *Desv. Essai Myod.* 775, 2. *U. radiata*, *Walk. Ent. Mag.* iii. 74, 1, *pl.* 1, *f.* 19. *Acinia radiata*, *Macq. Hist. Nat. Dipt.* ii. 472, 11.
- a. England.
- b. France.
- c. South of France. Presented by the Entomological Club.
- d. ———? From Mr. Children's collection.

**TRYPETA** Mevarna, n. s., fem. *Fulva cinereo tecta, abdomine basi cinereo apice nigro, palpis antennis pedibusque fulvis, alis albis apice fusco radiatis.*

Body dark tawny, thinly clothed with tawny hairs, covered with gray bloom, which has a tawny tinge on the breast: head tawny; sides of the face without bristles; epistoma not prominent: eyes brassy, adorned with green and purple; fore part rather flat, its facets larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with tawny bristles: feelers tawny, a little shorter than the face; third joint nearly linear, downy, very slightly rising on the upper side at the tip, which is truncated, full twice the length of the second joint; bristle black, tawny and rather thick at the base, rather more than twice the length of the third joint: abdomen obconical, tawny, gray at the base, black and tapering towards the tip, much longer than the chest: legs tawny, clothed with short black hairs; claws black: wings white, adorned near the tip with a large brown spot, which is darkest along the fore border, and sends forth nine rays from its paler part; it includes two distinct white dots, and along the border are others incomplete; it has a tawny tinge above the middle cross-vein, which is separated from the lower cross-vein by very little less than the length of the latter; both are perpendicular; wing-ribs tawny; veins black, tawny towards the base; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Florida. Presented by E. Doubleday, Esq.

**TRYPETA** Aira, n. s., fem. *Fulva cano tecta, abdominis apice nigro depresso, palpis antennis pedibusque fulvis, alis longis angustis albis apice fusco radiatis.*

Body tawny, thinly clothed with tawny hairs, thickly covered with hoary bloom, which is less prevalent on the head, and disappears beneath the mouth: head and chest beset with tawny bristles; sides of the face without bristles; epistoma very slightly prominent: eyes purplish black; fore part rather flat, its facets larger than those elsewhere: sucker and palpi tawny, clothed with tawny hairs: feelers tawny, a little shorter than the face; third joint conical, downy, about twice the length of the second; bristle black, slender, downy, about twice the length of the third joint: abdomen about twice the length of the chest, tapering from the base to the tip, where it is flat, black and shining: legs pale tawny, clothed with short black hairs; claws black: wings white, long and narrow; a large, irregular, dark brown spot on the fore border, near the tip of the wing, sending forth three rays to the hind border and an ob-

lique branch to the fore border, including two round spots, and more or less incompletely including four other spots; wing-ribs and veins pale yellow; lower cross-vein straight, separated by much less than its length from the middle cross-vein; poisers pale tawny. Length of the body 2 lines; of the wings  $2\frac{1}{2}$  lines.

a. Congo. Presented by Sir J. Richardson.

Group XIX. *Acinia*, *Desv. Essai Myod.* 775.

*TRYPETA corniculata*, *Meig. Dipt.* v. 335, 34. *Loew, Germ. Zeit. Ent.* v. 373, 39, pl. 1, f. 31. *Boie, Ent. Zeit. Stett.* viii. 327, 20. *Tephritis corniculata*, *Fall. Ortal.* 8, 11. *Zett. Act. Holm.* 1819. *Acinia Jaceæ*, *Desv. Essai Myod.* 776, 1. *A. corniculata*, *Macq. Hist. Nat. Dipt.* ii. 469, 1. *Walk. Ent. Mag.* iii. 75, 1, pl. 1, f. 20.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. France.

*TRYPETA Bardanæ*, *Meig. Dipt.* v. 349, 59. *Loew, Germ. Zeit. Ent.* v. 376, 41, pl. 2, f. 37. *T. confusa*, *Meig. Dipt.* v. 333, 37, pl. 50, f. 9. *Trupanea Bardanæ*, *Schrank. Faun. Boic.* iii. 2524. *Acinia plantaris?* *Desv. Essai Myod.* 778, 6. *A. Heraclei*, *Walk. Ent. Mag.* iii. 77, 4, pl. 1, f. 23. *Macq. Hist. Nat. Dipt.* ii. 470, 5?

a. England.

b. France.

c. ———? From Mr. Children's collection.

*TRYPETA Leontodontis*, *Meig. Dipt.* v. 335, 35, pl. 50, f. 8. *Loew, Germ. Zeit. Ent.* v. 380, 45, pl. 2, f. 39. *Boie, Ent. Zeit. Stett.* viii. 327, 19. *Musca Leontodontis*, *Deg. Ins.* vi. 46, 17, pl. 2, f. 15—18. *M. stellata?* *Sulz. Ins.* 216, pl. 28, f. 12, c. *Fuessly, Schweiz. Ins.* 11, 25. *Panz. Faun. Germ.* 20, 23. *M. parietina*, *Fabr. Mant. Ins.* ii. 36, 96. *Sp. Ins.* ii. 450, 79. *Ent. Syst.* iv. 350, 154. *M. Scabiosæ*, *Fabr. Ent. Syst.* iv. 361, 200. *Dacus Scabiosæ*, *Fabr. Syst. Antl.* 278, 26. *Trupanea Leontodontis*, *Schrank, Faun. Boic.* iii. 2519. *Tephritis Leontodontis*, *Fall. Ortal.* 9, 13. *Zett. Ins. Lapp.* 745, 6? *Musca cinereus*, *Harr. Ex.* 75, pl. 21, f. 11. *Trypeta confusa?* *Meig. Dipt.* v. 337, 36, pl. 50, f. 9. *Acinia claripennis?* *Desv. Essai Myod.* 778, 7. *A. Leontodontis*, *Macq. Hist. Nat. Dipt.* ii. 469, 2. *Walk. Ent. Mag.* iii. 77, 5, pl. 1, f. 24.

a. England.

b. France.

c. South of France. Presented by the Entomological Club.

*TRYPETA flavicauda*, Meig. *Dipt.* v. 336, 36. *Tephritis Pini*, Haliday, *Ann. Nat. Hist.* 1839, 187, var.? *T. Theora*, Newman, *Ent. Mag.* i. 506. *Acinia Pediculariarum*, Desv. *Essai Myod.* 776, 2. *A. Jaceæ*, Desv. *Essai Myod.* 776, 1. *A. Arctii*, Desv. *Essai Myod.* 777, 3. *A. flavicauda*, Walk. *Ent. Mag.* iii. 78, 7.

- a. England. Presented by F. Walker, Esq.
- b. England.
- c. France.
- d. Aix-la-Chapelle. Presented by F. Walker, Esq.
- e. ———? From Mr. Children's collection.

*TRYPETA Absinthii*, Meig. *Dipt.* v. 340, 42, pl. 50, f. 12. Loew, *Germ. Zeit. Ent.* v. 394, 57, pl. 2, f. 47. Boie, *Ent. Zeit. Stett.* 1847, viii. 326, 6. *Musca cinereus*, Harris, *Ex.* 75, pl. 21, f. 11. *Tephritis Absinthii*, Fabr. *Syst. Antl.* 322, 30. *T. punctella*, Fall. *Ortal.* 13, 21. *T. Alethe*, Newman, *Ent. Mag.* i. 506. *Acinia Millefolii*? Desv. *Essai Myod.* 775, 5. *A. Absinthii*, Macq. *Hist. Nat. Dipt.* ii. 470, 6. Walk. *Ent. Mag.* iii. 79, 8, pl. 1, f. 27.

- a. England. Presented by F. Walker, Esq.
- b. England.
- c. France.
- d. Gothenberg. Presented by the Entomological Club.

*TRYPETA clongatula*, Loew, *Germ. Zeit. Ent.* v. 397, 60, pl. 2, f. 50. Boie, *Ent. Stett.* viii. 1847, 327, 7; ix. 1848, 81, 1.

- a. Aix-la-Chapelle. Presented by F. Walker, Esq.

*TRYPETA Pœnia*, n. s., fem. *Cana, capite fulvo, abdominis segmento ultimo depresso ferrugineo basi apiceque nigro, palpis antennis pedibusque fulvis, alis albis fasciis duabus guttatis diffusis obliquis ornatis.*

Body thinly clothed with short tawny hairs, adorned with a hoary covering, which has a tawny hue on the disk of the chest: head tawny, with a white covering in front and on each side of the crown: head and chest beset with a few stout black bristles; sides of the face without bristles; epistoma prominent: sucker and palpi tawny, clothed with tawny hairs: eyes red; fore part flat, its facets larger than those elsewhere: feelers tawny, shorter than the face; third joint nearly conical, hardly longer than the second, slightly rising on the upper side of the tip, which is obliquely truncated; bristle black, bare, rather stout at the base, about thrice the length of the third joint: abdomen obconical, a little longer than the chest, last segment flat, ferruginous, shining, black at the base and at the

tip: legs tawny, clothed with short black hairs; claws black: wings white, irregularly adorned with brown, which is chiefly disposed in two oblique bands; these contain several dots; the first band is almost black on the fore border of the wing, and its dots are pale tawny; the second is broader and more irregular than the first; wing-ribs yellow; veins tawny, yellow at the base, black towards the tips; lower cross-vein very slightly curved outward; middle cross-vein slightly oblique, separated from the lower by rather more than its length; poisers tawny. Length of the body  $1\frac{1}{4}$  line; of the wings  $3\frac{1}{2}$  lines.

a. New Holland.

TRYPETA Cassara, n. s., fem. *Nigra, cinereo tecta, capite fulvo albido trivittato, palpis antennis pedibusque fulvis, alis fuscis maculis limpidis confertim ornatis.*

Body black, tinged with gray, clothed with pale tawny hairs: head and chest beset with a few black bristles: head tawny, yellow in front, adorned above with three stripes of whitish lustre; sides of the face without bristles; epistoma prominent: eyes pitchy; facets of the fore part much larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, much shorter than the face; third joint conical, a little longer than the second, its breadth more than half its length; bristle black, slender, downy, more than thrice the length of the third joint: abdomen nearly spindle-shaped, a little longer and narrower than the chest; tube black, about one-fourth of the length of the preceding part: legs tawny, clothed with very short black hairs, beset with a few black bristles; claws black: wings brown, adorned with numerous colourless spots of various size, mostly round, near forty in number; wing-ribs tawny; veins black, tawny at the base; lower cross-vein slightly curved outward, nearly perpendicular, distant by rather less than its length from the middle cross-vein, which is upright and perpendicular; longitudinal veins nearly straight. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Peru. From Mr. Children's collection.

#### Group XX. Næta, Desv. *Essai Myod.* 778.

TRYPETA guttularis, Meig. *Dipt.* v. 341, 44. Loew, *Germ. Zeit. Ent.* v. 404, 66, pl. 2, f. 56. Tephritis capitata, Fall. *Suppl.* 14, 16, 17. Næta flavipes, Desv. *Essai Myod.* 778, 1. N. brunica, Desv. *Essai Myod.* 779, 2. N. guttularis, Walk. *Ent. Mag.* 80, 1, pl. 1, f. 28. Acinia guttularis, Macq. *Hist. Nat. Dipt.* ii. 471, 8.

a. England. Presented by F. Walker, Esq.

*TRYPETA guttata*, Meig. *Dipt.* v. 350, 61. Loew, *Germ. Zeit. Ent.* v. 400, 62, pl. 2, f. 52. *Tephritis guttata*, Fall. *Ortal.* *Trypeta gemmata*, Wied. Meig. *Dipt.* v. 339, 40. Boie, *Ent. Zeit. Stett.* viii. 317, 21, 328, 28.

a. England.

b. ———? From Mr. Children's collection.

c. ———? Presented by the Entomological Club.

*TRYPETA reticulata*, Loew, *Germ. Zeit. Ent.* v. 401, 63, pl. 2, f. 53. Boie, *Ent. Stett.* viii. 327, 22; ix. 83, 9. *Trupana reticulata*, Schrank. *Faun. Boic.* iii. 2522. *Tephritis pupillata*, Fall. *Ortal.* 11, 17. Zett. *Ins. Lapp.* 745, 8. *Trypeta pupillata*, Meig. *Dipt.* v. 341, 45. *Acinia lineata*, Macq. *Hist. Nat. Dipt.* ii. 472, 12. *A. pupillata*, Macq. *Hist. Nat. Dipt.* ii. 471, 9.

a. England. Presented by F. Walker, Esq.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. ———? From Mr. Children's collection.

*TRYPETA irrorata*, Meig. *Dipt.* v. 340, 43. Loew, *Germ. Zeit. Ent.* v. 402, 64, pl. 2, f. 54. *Tephritis irrorata*, Fall. *Ortal.* 11, 15. *Acinia irrorata*, Macq. *Hist. Nat. Dipt.* ii. 471, 7.

a. France.

*TRYPETA Alvea*, n. s., mas. *Fulva, capite antico flavo, abdomine fusco vitta dorsali fulva, palpis antennis pedibusque fulvis, alis latis fuscis maculis fulvis limpidisque ornatis.*

Body tawny: head beset with a few black bristles: head clothed with a few pale yellow hairs, its fore part pale yellow; face whitish yellow, its sides without bristles; epistoma not prominent: eyes dark red; fore part rather flat, its facets larger than those elsewhere: sucker pale tawny, pitchy beneath, clothed with pale yellow hairs; palpi pale tawny, beset with short black bristles: feelers pale tawny, about half the length of the face; third joint conical, hardly longer than the second; bristle black, slender, tawny for one-third of the length from the base, much more than half the length of the third joint: chest and breast clothed with tawny down: abdomen dark brown, linear, longer than the chest, having a narrow tawny stripe along the back and a broad ferruginous stripe beneath: legs tawny, clothed with short black hairs; claws black; foot-cushions yellow: wings broad, dark brown, with many indistinct tawny dots, paler and adorned with paler dots towards the hind border; a triangular colourless spot on the fore border at two-thirds of the length; the extreme tips are colourless, and there are two almost colourless marks on the hind border; wing-ribs dark tawny; veins black; lon-

gitudinal veins very slightly waving; lower cross-vein slightly curved outward, its lower end very near the hind border of the wing, its upper end separated by a little less than its length from the middle cross-vein, which is straight and slightly oblique; poisers tawny, with pitchy knobs. Length of the body 4 lines; of the wings 8 lines.

a. Australia. From the Rev. J. Wenham's collection.

TRYPETA Dertona, n. s., fem. *Fulva, abdominis segmento ultimo ferrugineo apice nigro, palpis fulvis, antennis flavis, pedibus fulvis, alis fuscis disco maculis fulvis margineque maculis limpidis ornatis.*

Head and chest beset with a few tawny bristles: head tawny, whitish about the eyelets; face broad, pale yellow, its sides without bristles; epistoma not prominent: eyes coppery red, slightly convex; all the facets rather small: sucker tawny, clothed with short tawny hairs; palpi tawny, beset with short black bristles: feelers yellow, very short, less than half the length of the face; third joint flat above, convex beneath, rounded at the tip, a little longer than the second; bristle black, slender, downy, tawny and stout at the base, near four times the length of the third joint: chest and breast dark tawny, clothed with short paler hairs: abdomen tawny, obconical, tapering towards the tip, longer than the chest; last segment ferruginous, shining, with a black tip: legs tawny, clothed with short black hairs; claws black: wings dark brown, adorned in the disk with many indistinct tawny dots, and also with some colourless dots along the border; a large triangular spot on the fore border at two-thirds of the length of the wing incloses a brown spot; a large irregular colourless spot near the base on the hind border; wing-ribs and veins pitchy, the latter pale tawny in the colourless parts of the wings; all the longitudinal veins slightly waving; lower cross-vein near the hind border, slightly curved outward, separated by rather less than its length from the middle cross-vein, which is oblique and very slightly curved outward; poisers tawny, with ferruginous knobs. Length of the body  $3\frac{1}{4}$  lines; of the wings 7 lines.

a. ——— ?

TRYPETA Vonedá, n. s., fem. *Cervina, abdomine piceo, palpis antennis pedibusque fulvis, alis limpidis amplis sexdecem maculatis basi fulvis.*

Body rather slender, thickly clothed with short tawny hairs: head and chest beset with long tawny bristles; a row of short tawny bristles behind the eyes; face whitish, with a few little black bristles on each side and towards the base; epistoma very slightly promi-

nent: eyes red, convex; fore part rather flat, its facets much larger than those elsewhere: sucker pale tawny, clothed with tawny hairs; palpi pale tawny, beset with short black bristles: feelers tawny, about half the length of the face; third joint conical, downy, a little longer than the second; bristle black, downy, slender, tawny at the base about thrice the length of the third joint: chest and breast fawn-colour: abdomen pitchy, spindle-shaped, shining, narrower than the chest and nearly twice its length, clothed with short tawny hairs: legs tawny; foot-cushions pale tawny; claws black: wings dark brown, tawny at the base, rather long and broad, adorned with about sixteen colourless spots of various size; four of those of the larger size are on the fore border; a smaller one is near the tip of the wing, which is also colourless; there are four along the hind border, and six in the disk of the wing; wing-ribs tawny; veins pitchy, tawny at the base; lower cross-vein very slightly curved outward, separated by rather more than its length from the middle cross-vein, which is very slightly curved outward; longitudinal veins straight; poisers tawny. Length of the body 2½ lines; of the wings 5 lines.

a. Bahia.

*TRYPETA Sarnia*, n. s., fem. *Fulva, capite nigro maculato cyaneo ornato, thorace ferrugineo trivittato, scutello nigro bimaculato, terebra ferruginea nigro trivittata, palpis antennis pedibusque fulvis, femoribus nigro maculatis, alis fulvis, annulis radiis fasciisque variis.*

Body tawny, clothed with tawny hairs: head beset with long tawny and black bristles, its hind part fringed with short tawny and black bristles; two deep black spots on the sides of the crown, having between them at the base of the feelers a smaller black spot; head adorned with a black spot on each side beneath; face tinged with blue lustre, with a black spot on its disk; its sides without bristles; an oblique black spot adorned with blue reflections on each side of the epistoma, which is slightly prominent: eyes brassy green, spotted with red, slightly convex: facets of the fore part larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, a little shorter than the face; third joint conical, downy, slightly curved upward, rounded at the tip, longer than the second: chest adorned with three pale ferruginous stripes, beset with a few black bristles; scutcheon armed also with some tawny bristles, and having a black spot on each side: abdomen clothed with tawny hairs for more than one-third of the length from the base, tapering from the base to the tip, much longer than the chest, which it equals in breadth at the



base; its tube is ferruginous, shining, and composed of three segments; the first is obconical, pale ferruginous, with a black tip, clothed with short black hairs, slightly furrowed on each side; the second is dark ferruginous, linear, black towards the tip, shagreened beneath, very much shorter and narrower than the first; the third shorter and narrower than the second, and tapers to the tip, which is black: legs tawny, clothed with short tawny hairs; two black spots on each of the four hinder thighs; one black spot on each fore thigh; fore thighs armed with stout tawny and black bristles; hind shanks beset with tawny bristles; claws black: wings tawny, paler towards the hind borders, adorned with numerous colourless circles; those on the disk are few, but well defined, and have brown rings; those towards the hind border are more numerous, but indistinct; the disk has also two or three tawny circles brighter in colour than the rest of the wing, and is adorned with paler rings, and near the tip of each there is a black circle with a pale tawny rim; the fore border and the tip are colourless, the former between the base and the point, where it is armed with two black bristles, has four or five brown bands; beyond these there is a small pale tawny space interrupted by three brown bands, which are near together; beyond the latter the border of the wing is adorned with tawny rays, that proceed from the tawny disk, and have brown borders, those along the fore border are mostly triangular, at the tip they are narrower and linear, on the hind border their form is again changed, and they inclose colourless spots, these at first are elliptical, but become round and more distinct near the base; wing-ribs and veins tawny; lower cross-vein brown, a little oblique, curved outward in the middle part of the wing, separated by less than its length from the middle cross-vein, which is nearly perpendicular, and very slightly curved outward; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 7 lines.

a. ——— ?

TRYPETA Stella, n. s., mas. *Fulva, capite flavo, abdomine nigro basi fulvo, palpis flavis apice piceis, antennis pedibusque fulvis, alis fuscis quatuordecim maculatis basi et ad costam fulvis.*

Body clothed with pale yellow hairs and bristles: head pale yellow, with a row of long black bristles on each side of the crown, and a fringe of short pale yellow bristles across the hind part; sides of the face without bristles; epistoma not prominent; peristoma large: eyes black; fore part slightly convex; all the facets small: sucker and palpi pale yellow; tips of the palpi pitchy: feelers pale tawny, much shorter than the face; third joint conical, a little longer than the second; bristle black, slender, bare, about thrice the

length of the third joint: chest dark tawny: breast pale tawny: abdomen black, shining, linear, tawny at the base, longer and narrower than the chest: legs tawny; claws black, very short; foot-cushions very small: wings dark brown, somewhat tawny at the base and along two-thirds of the fore border, adorned with fourteen colourless spots, five of these are on the fore border, five on the hind border, one on the tip, and three on the disk; the first and second on the fore border are triangular, the third descends into the disk, the fourth and fifth are small and round; of those on the hind border the first, second and third are small and round, the fourth descends into the disk, the fifth is small and semicircular; the one at the tip forms a slender band; in the disk are four, the first and the third are longer than the second, which is between them, and near the hind border; wing-ribs tawny; veins black, tawny at the base and on the colourless parts; cross-veins tawny; lower cross-vein nearly perpendicular, hardly curved inward, distant about its length from the middle cross-vein, which is slightly oblique and a little curved inward; poisers pale tawny. Length of the body  $1\frac{1}{4}$  line; of the wings 3 lines.

a. North Bengal. From Miss Campbell's collection.

*TRYPETA* Cyana, n. s., fem. *Cervina, capite fulvo albido trivittato, abdominis segmento ultimo ferrugineo depresso basi apiceque nigro, palpis flavis, antennis pedibusque fulvis, femoribus piceo cinctis, alis fuscis maculis limpidis confertim ornatis.*

Body dark fawn-colour, thinly clothed with pale tawny hairs: head and chest beset with a few black bristles: head bright tawny, brown behind; three whitish stripes between the eyelets and the base of the feelers; sides of the face without bristles; epistoma prominent: eyes brassy red behind, purplish black in front; nearly all the facets very small: sucker tawny, jointed, bent, clothed with tawny hairs; palpi yellow, beset with black bristles: feelers tawny, a little shorter than the face; third joint conical, downy, a little longer than the second; bristle black, downy, tawny at the base, much more than twice the length of the third joint: abdomen obconical, much longer than the chest; last segment ferruginous, tapering, flat, shining, slightly curved upward, blackish at the base and at the tip: legs tawny, clothed with short tawny hairs; a pitchy band round each thigh; claws black: wings brown, adorned with numerous white dots of various size, those on the disk are mostly very small; there are a few of the largest along the border; between the white base of the wing and the brown part therein are several large incomplete spots; wing-ribs and veins tawny; veins darker towards the tips; cross-veins nearly perpendicular;

lower cross-vein very slightly curved upward, separated by rather less than its length from the middle cross-vein; poisers pale tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

### Group XXI.

TRYPETA Adatha, n. s. *Flavo-fusca, gracilis, capite antico abdomineque fulvis, hujus apice depresso, palpis antennis pedibusque fulvis, alis longis angustis fuscis basi postice limpidis maculis fulvis limpidisque seriatim guttatis.*

Body very slender: head and chest yellowish brown, dull, thinly clothed with short black hairs, beset with a few black bristles: head paler than the chest, tawny in front, and having a hoary tinge beneath; sides of the face without bristles; epistoma very slightly prominent: eyes crimson; fore part rather flat, its facets larger than those elsewhere: sucker and palpi pale tawny, clothed with paler hairs: feelers dark tawny, shorter than the face; third joint downy, conical, a little longer than the second; bristle black, downy, tawny at the base, about thrice the length of the third joint: chest adorned with four slender brown stripes: breast hoary: abdomen dark tawny, smooth, shining, thinly clothed with short black hairs along each side, tapering from the base to the tip, where it is flat: legs tawny, rather long and slender, thinly clothed with very short tawny hairs; claws black, small; fore thighs armed with a few tawny bristles: wings dark brown, very long and narrow, adorned with very numerous small tawny spots, which are disposed in rows along the areolets between the longitudinal veins; a row of colourless spots along the fore border, and another along the hind border, which is quite colourless towards the base; cross-veins nearly straight; lower cross-vein rather oblique, separated from the middle cross-vein by more than twice the length of the latter; wing-ribs and veins black; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. Congo. Presented by Sir J. Richardson.

## Group XXII.

**TRYPETA** *Argus*, n. s., mas. *Fulva, abdomine piceo vario, palpis antennis pedibusque fulvis, alis fuscis albo confertim guttatis fulvo maculatis basi cinereis ad costam convexis apice acuminatis limpidis fuscoque fasciatis.*

Head and chest tawny, clothed with tawny hairs, beset with some long tawny bristles: sides of the face without bristles; epistoma slightly prominent: eyes brassy, with green and purple; fore part nearly flat, its facets larger than those elsewhere: a row of short tawny bristles behind the eyes: sucker tawny, clothed with tawny hairs; palpi pale tawny, beset with black bristles: feelers dark tawny, shorter than the face; third joint conical, a little longer than the second; bristle black, downy, very slender, more than thrice the length of the third joint: abdomen elliptical, tawny, shining, a little shorter and narrower than the chest, somewhat pitchy on the first segment and on the hind borders of the following segments, and on each side, especially towards the tip, which is beset with black bristles: legs tawny, clothed with short black hairs, beset with a few tawny bristles; claws black: wings dark brown, elliptical, gray at the base, pointed at the tips; the fore border is very convex, and beneath its middle a stripe of very dark brown, adorned with irregular tawny spots, extends along near one-third of the length of the wing, and is terminated by a colourless spot; beyond this and near the tip of the wing are two colourless bands, widening to the hind border, but not reaching the fore border; the dark part of the wing about them is mostly tawny; the brown of the wing is paler along the hind border, and in the disk it is spangled with some hundreds of white dots; wing-ribs tawny; veins black, tawny towards the base; first and third longitudinal veins waving; lower cross-vein very slightly curved outward, separated by its length from the middle cross-vein, which is straight and slightly oblique; poisers tawny, with brown knobs. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. Bahia. Presented by J. P. George Smith, Esq.

Group XXIII. *Anomoia*, *Walk. Ent. Mag.* iii. 80.

**TRYPETA** *Elimia*, n. s., fem. *Nigra, capite fulvo, palpis antennis pedibusque fulvis, tibiis posticis basi femoribusque posterioribus piceis, alis limpidis basi interrupti fuscis apice fusco fasciatis.*

Head and chest beset with some long black bristles: head tawny; each side of the crown with a row of black bristles: eyes

black; fore part rather flat, its facets a little larger than those elsewhere; sides of the face without bristles; epistoma not prominent; sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, a little shorter than the face; third joint conical, more than twice the length of the second; bristle black, slender, full twice the length of the third joint, tawny at the base: chest and abdomen black: abdomen elliptical, a little longer than the chest: legs tawny, clothed with short tawny hairs; tips of the shanks armed with black spines; hind shanks at the base and four hinder thighs pitchy; claws black: wings colourless, dark brown for near half the length from the base, with the exception of a short colourless stripe extending along the fore border from the base, of a narrow oblique white band beneath the above-mentioned stripe, of a large triangular spot on the fore border near the tip of the brown part, and of the hind border at the base; the colourless half is interrupted by a dark brown narrow band, which traverses the wing, and is parallel to the brown part, and after attaining the border proceeds to the tip of the wing; the outer branch of the angle which it forms has parallel to its inner side an oblique band, which does not extend above the second longitudinal vein; wing-ribs pitchy; veins black; lower cross-vein straight, nearly perpendicular, separated by less than its length from the middle cross-vein, which is longer than usual; poisers tawny. Length of the body  $1\frac{1}{2}$  lines; of the wings 3 lines.

a. Philippine Islands. From Mr. Wood's collection.

*TRYPETA* Tritea, n. s., fem. *Fusca, capite fulvo, facie thoracis maculis duabus scutelloque albis, palpis fulvis, antennis piceis, pedibus albis, tibiis posterioribus basi femoribusque fuscis; alis limpidis basi fuscis apice fusco fasciatis.*

Head and chest beset with long black bristles: head pale tawny; front of the crown yellow; face white, with the exception of two brown grooves for the reception of the feelers, the sides without bristles; epistoma not prominent: eyes bronze red; fore part rather flat, its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, thickly beset with black bristles: feelers pitchy, shorter than the face; third joint linear, conical towards the tip, more than twice the length of the second joint; bristle black, slender, feathered with rather long hairs, tawny at the base, more than twice the length of the third joint: chest and breast dark brown, shining; a large white spot on each side of the chest; scutcheon white: abdomen elliptical, dark brown, clothed with short black hairs, not longer nor broader than the chest: legs white; thighs dark brown; four hinder shanks brown towards the

base ; under-side of thighs beset with black bristles ; tips of shanks armed with black spines ; claws black : wings colourless, dark brown for one-fourth of the space from the base ; from this brown a broad band of the same hue incloses a large triangular spot, and proceeds obliquely to the fore border, which it accompanies to the tip of the wing ; above the latter it includes three or four very small colourless spots ; after an interval below this band two narrow pale brown bands form an angle, which is nearly parallel to it ; wing-ribs and veins tawny, the latter pitchy in the brown parts of the wing ; lower cross-vein rather oblique, very slightly curved inward, separated by very much more than its length from the middle cross-vein, which is straight and slightly oblique ; poisers dark tawny. Length of the body 2 lines ; of the wings  $4\frac{1}{2}$  lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

#### Group XXIV.

TRYPETA Doclea, n. s., fem. *Picea, capite antico thoracis lateribus palpis antennis pedibusque ferrugineis, alis limpidis fusco fasciatis et vittatis.*

Body pitchy : head clothed with a few black bristles, ferruginous in front and along the borders of the eyes ; sides of the face without bristles ; epistoma slightly prominent ; peristoma very large : eyes pitchy ; fore part reddish, nearly flat, its facets much larger than those elsewhere : sucker ferruginous, clothed with tawny hairs ; palpi ferruginous, beset with black bristles : feelers ferruginous, a little shorter than the face ; third joint pitchy, downy, linear, conical at the tip, more than twice the length of the second joint : sides of the chest ferruginous : abdomen dull, finely shagreened, nearly elliptical, a little longer than the chest, tapering towards the tip : legs ferruginous, here and there slightly pitchy, clothed with short tawny hairs ; claws black : wings colourless, adorned with a brown stripe, which extends from the base to just beyond the middle cross-vein, is nearly parallel to the fore border and at a short distance beneath it ; a rather narrow brown stripe commences on the fore border at one-third of the length, and after a slight interruption extends to the tip, where it is widened ; just before its interruption it sends forth a short brown band towards the disk ; wing-ribs tawny ; veins black, tawny at the base ; longitudinal veins nearly straight ; lower cross-vein much curved inward, separated by very much more than its length from the middle cross-vein, which is straight and very short. Length of the body  $2\frac{1}{2}$  lines ; of the wings  $4\frac{1}{2}$  lines.

a. New Holland. Presented by the Entomological Club.

Group XXV. *Euleia*, *Walk. Ent. Mag.* iii. 81.

**TRYPETA** *Lychnidis*, *Loew, Germ. Zeit. Ent.* v. 347, 23, *pl.* 1, *f.* 22. *Tephritis Lychnidis*, *Fabr. Syst. Antl.* 322, 26. *Musca Lychnidis*, *Gmel. Ed. Syst. Nat.* v. 2858, 251. *Tephritis Centaureæ*, *Fall. Ortal.* 16, 26. *Trypeta discoidea*, *Meig. Dipt.* v. 323, 19, *pl.* 49, *f.* 14. *Aciura discoidea*, *Walk. Ent. Mag.* iii. 72, 2, *pl.* 1, *f.* 16. *Urophora discoidea*, *Macq. Hist. Nat. Dipt.* ii. 455, 1.

a. England.

**TRYPETA** *Heraclei*, *Loew, Germ. Zeit. Ent.* v. 323, 9, *pl.* 1, *f.* 7. *Musca Heraclei*, *Linn. Faun. Suec.* 461, 1877. *Syst. Nat.* 998, 125. *Gmel. Ed. Syst. Nat.* v. 2858, 125. *Musca Onopordinis*, *Fabr. Sp. Ips.* ii. 455, 104. *Mant. Ins.* ii. 353, 125. *Ent. Syst.* iv. 360, 198. *Gmel. Ed. Syst. Nat.* v. 2859, 252. *Stew. El.* ii. 263. *M. Centaureæ*, *Fabr. Ent. Syst.* iv. 360, 199. *M. cæsi*, *Harr. Exp.* 75, *pl.* 21, *f.* 8. *Scatophaga Onopordinis*, *Fabr. Syst. Antl.* 210, 31. *Tephritis Centaureæ*, *Fabr. Syst. Antl.* 322, 28. *T. Onopordinis*, *Fall. Ortal.* 15, 25. *Macq. Hist. Nat. Dipt.* ii. 464, 11. *Trypeta Onopordinis*, *Meig. Dipt.* v. 316? *pl.* 48, *f.* 24. *T. Centaureæ*, *Meig. Dipt.* v. 324, 20, *pl.* 49, *f.* 8. *Euleia Onopordinis*, *Walk. Ent. Mag.* iii. 82, 1, *pl.* 1, *f.* 30.

a. England.

b. France.

c. Sicily.

d. ———? From Mr. Children's collection.

**TRYPETA** *flavescens*, var.? *Meig. Dipt.* v. 316, 8, *pl.* 48, *f.* 23. *Wied. Zweif.* ii. 492, 25. *Loew, Germ. Zeit. Ent.* v. 322, 8. *Musca flavescens*, *Fabr. Ent. Syst. Suppl.* 565, 156, 157. *Dacus marmoreus*, *Fabr. Syst. Antl.* 276, 18. *Tephritis flavescens*, *Fabr. Syst. Antl.* 319, 15. *Macq. Hist. Nat. Dipt.* ii. 463, 10.

a. ———? From Mr. Children's collection.

**TRYPETA** *Mutycæ*. *Fulva*, *abdomine rufo-fusco quadrivittato, palpis antennis pedibusque fulvis, alis fuscis decem-maculatis basi fulvis.*

Head and chest beset with some long black bristles, thinly clothed with very short black hairs: head tawny, armed behind the eyes with a row of short black bristles; sides of the face without bristles; epistoma not prominent: eyes black, composed of rather large facets, rather flat, especially in front, where the facets are

largest: sucker tawny, clothed with tawny hairs; palpi pale tawny, beset with black bristles: feelers tawny, much shorter than the face; third joint conical, a little longer than the second; bristle black, very slender, thinly feathered with long hairs, full thrice the length of the third joint: chest and breast pale tawny: abdomen oval, tawny, shining, a little shorter than the chest, adorned with four reddish brown bands, three of which are interrupted in the middle; the fourth is entire and occupies the tip: legs pale tawny, clothed with short tawny hairs and with a few short black bristles: claws black: wings dark brown, tawny at the base, rather broad, adorned with about ten colourless spots of various size; these join the fore border or the hind border, with the exception of three round dots on the disk; wing-ribs tawny; veins pitchy, tawny on the pale parts of the wings; longitudinal veins nearly straight, first and third beset with short black bristles; cross-veins straight, tawny, and having a narrow tawny stripe on each side; lower cross-vein very near the hind border, separated by its length from the middle cross-vein; poisers yellow. Length of the body  $2\frac{1}{2}$  lines; of the wings 6 lines.

a. East India. From Archdeacon Clerk's collection.

TRYPETA Aex, n. s., mas. *Fulva, piceo varia, abdomine nigro fulvo fasciato, palpis antennis pedibusque fulvis, femoribus anterioribus piceis, alis fuscis limbo limbo maculatis, ad apices limpidis fuscoque vittatis.*

Body tawny, clothed with short black hairs, pitchy towards the tip of the chest and on the base of the scutcheon: head and chest beset with some long black bristles, which form a row on each side of the crown, and there is a cross fringe of short black bristles behind the eyes; sides of the face without bristles; epistoma very slightly prominent: eyes black; fore part flat, composed of much larger facets than those elsewhere; sucker dark tawny, clothed with tawny hairs; palpi pale tawny, beset with black bristles: feelers pale tawny, as long as the face; third joint downy, slightly conical, rounded at the tip, nearly thrice the length of the second; bristle black, slender, clothed with very short hairs, slightly bent near the base, which is tawny, rather more than twice the length of the third joint: hind scutcheon black: abdomen black, elliptical, nearly cylindrical, very little narrower and shorter than the chest, clothed along each side with stout black hairs; first segment tawny; second tawny along each side and on the hind border; hind borders of the third and of the fourth with tawny bands, which dwindle and disappear towards each side: legs pale tawny, clothed with tawny hairs; thighs clothed beneath with black bristles; fore and middle thighs pitchy, with tawny tips; claws and hind thighs black: wings dark



brown, with some colourless intervals near the base; a large triangular colourless spot resting on the fore border beyond the middle of the wing; a little beyond this the whole of the wing is colourless to the tip, with the exception of two stripes, of which one runs along the fore border and the other forms a very small angle beneath it; the hind border is slightly gray for near half the length, and there is a colourless spot a little beyond; wing-ribs tawny; veins pitchy, tawny in the colourless parts of the wing; borders of cross-veins tawny; lower cross-vein slightly oblique, very slightly curved inward for half the length from the base, straight from thence to the tip, separated by much more than its length from the middle cross-vein, which is nearly perpendicular and very slightly curved inward; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Brazil. From Mrs. Noel's collection.

TRYPETA Cronia, n. s., mas. *Fulva, abdominis vitta apiceque piceis, palpis antennis pedibusque fulvis, tibiis posticis obscurioribus, alis fuscis basi maculis apiceque limpidis, apice fusco bivittatis.*

Body pale tawny, clothed with short tawny hairs: head and chest beset with a few long black bristles, which form a row on each side of the crown, and there is a cross fringe of short black bristles behind the eyes: face pale tawny, its sides without bristles; epistoma very slightly prominent: eyes coppery red, varied with green; fore part flat, its facets very much larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, as long as the face; third joint downy, slightly conical, nearly thrice the length of the second; bristle black, slender, clothed with very short black hairs, rather more than twice the length of the third joint: abdomen elliptical, very little shorter and narrower than the chest, clothed along each side with stout black hairs; a pitchy band towards the tip, which is also pitchy: legs tawny, clothed with black and tawny hairs; claws black; fore thighs beset beneath with black bristles; hind shanks dark tawny, thickly clothed with black hairs: wings dark brown, colourless at the base, and adorned near it with some colourless spots; beyond the middle of the wing there is a large triangular colourless spot, whose tip extends into the middle of the disk; a little beyond this spot the whole of the tip of the wing is colourless, with the exception of two broad, curved, dark brown stripes, the upper runs along the fore border to the tip; hind border of the wing slightly gray from the base to the middle; a little beyond the latter there is a triangular colourless spot; wing-ribs and veins tawny; veins pitchy in the brown parts of the wing; borders of the cross-veins tawny; a small tawny dot a little below the fore border; and some

distance beyond, just above the middle cross-vein, there is a colourless dot; lower cross-vein very slightly oblique, and having an extremely obtuse inward angle; middle cross-vein nearly perpendicular, very slightly curved inward; poisers pale yellow. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. Brazil. From Mrs. Noel's collection.

*TRYPETA* Pornia, n. s., fem. *Fulva, facie albida, abdomine cyaneo basi fulvo, terebra fulva, palpis antennis pedibusque fulvis, alis limpidis fusco maculatis fasciatis et vittatis basi fulvis.*

Body tawny, beset with a few black bristles; a slight yellow protuberance above the base of the feelers; face whitish, its sides without bristles; epistoma slightly prominent: eyes pale red; fore part nearly flat, with a slight brassy tinge, its facets larger than those elsewhere: sucker and palpi tawny; sucker clothed with tawny hairs; palpi beset with black bristles: feelers tawny, a little shorter than the face; third joint flat above, convex beneath, rounded at the tip, much more than twice the length of the second joint; bristle black, very slender, feathered with eight or nine hairs of moderate length, much more than twice the length of the third joint: abdomen nearly oval, blue, shining, clothed with short black hairs, tawny at the base, lengthened towards the tip, whose tube is tawny and about one-fourth of the length of the preceding part: legs tawny, clothed with short black hairs; fore thighs beset beneath with a few black bristles; spines of the shanks and claws black: wings colourless, tawny at the base, adorned with very dark brown marks; of these are a small spot near the base, and beyond it a broad oblique stripe extending from the hind border to the fore border, and thence occupying more than half of the breadth and the whole of the tip of the wing; it sends forth two irregular, paler brown bands, which converge towards each other, and at the base nearly enclose a round colourless spot; there are also two complete round colourless spots in the brown part between the third and fourth longitudinal veins; between the two spots above there is a triangular colourless spot, whose base rests on the fore border of the wing; longitudinal veins nearly straight; wing-ribs tawny; veins black, tawny at the base and in the colourless parts along the fore border; lower cross-vein much less than its length distant from the middle cross-vein, nearly perpendicular, almost straight, its outward curve being hardly perceptible; middle cross-vein straight, perpendicular, a little less than half the length of the lower cross-vein; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $5\frac{1}{2}$  lines.

a. Port Stephen, New Holland. Presented by the Earl of Derby.

TRYPETA Dinia, n. s., fem. *Fulva, capite flavo, abdomine piceo basi fulvo, terebra fulva brevi, palpis pedibusque fulvis, antennis flavis, alis fuscis maculis nonnullis limpidis ornatis.*

Body tawny: head and chest beset with a few stout black bristles: head yellow, with a fringe of short black bristles behind the eyes; sides of the face without bristles; epistoma hardly prominent; eyes bright red, convex; facets of the fore part a little larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers yellow, as long as the face; third joint linear, conical at the tip, about four times the length of the second; bristle black, very slender, downy, tawny at the base, full twice the length of the third joint: abdomen pitchy, nearly oval, tawny at the base, a little longer and narrower than the chest, clothed with short black hairs, beset with a few black bristles; tube tawny, not more than one-sixth of the length of the preceding part: legs tawny, clothed with short black hairs; shanks beset with black bristles; spines and claws black: wings dark brown, with some colourless intervals at the base; beyond these there is an oblong colourless spot in the middle of the breadth of the wing, it is truncated on the side towards the tip; beyond the middle of the wing are two triangular colourless spots, which rest on the fore border; the second descends more than the first into the disk of the wing, it points towards a narrow colourless spot at a short distance within the lower cross-vein; below this spot, a little nearer the base of the wing, and communicating with the hind border, there is another spot which is broader; on the hind border, very near the tip of the wing, are two large colourless spots, whose sides are slightly curved, the one nearest the tip is much broader than the other; wing-ribs tawny; veins black, tawny at the base and in the colourless part of the fore border; longitudinal veins very slightly waving; cross-veins nearly straight, perpendicular, adorned with tawny borders; lower cross-vein distant by rather more than its length from the middle cross-vein; poisers tawny. Length of the body 3 lines; of the wings 6 lines

a. Jamaica. From Mr. Gosse's collection.

## Group XXVI.

**TRYPETA** Oborinia, n. s., mas. et fem. *Nigro-cyanea*, capite ferrugineo, palpis antennisque fulvis, pedibus nigro-viridibus, tibiis apice genubus tarsisque ferrugineis, alis nigris longis angustis albo sex-maculatis.

Body bluish black, rather dull: head and chest beset with black bristles: head ferruginous, tawny with a whitish covering in front, armed behind with rows of stout black bristles; sides of the face without bristles; epistoma hardly prominent: eyes brassy; fore part red, rather flat, its facets larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, nearly as long as the face; third joint linear, rounded at the tip, more than twice the length of the second joint; bristle black, slender, downy, nearly thrice the length of the third joint: chest and abdomen nearly linear, very thinly clothed with short tawny hairs: abdomen spindle-shaped, tapering and lengthened towards the tip, a little narrower than the chest and nearly twice its length: legs slender, greenish black; knees, feet, and tips of shanks ferruginous; foot-cushions pale tawny; claws black; fore thighs beset with black bristles: wings black, long and narrow, each adorned with six large white marks and with one white dot; one of the marks forms an oblique band across the wing near the base, the other five are triangular in shape, two rest on the fore border and three on the hind border, and their tips approach each other in the disk; the dot is a little nearer the tip in the middle of the breadth; wing-ribs and veins black, the latter tawny in the white parts of the wing; longitudinal veins straight; lower cross-vein very slightly curved inward along most of the length, straight towards the lower end, separated by less than half its length from the middle cross-vein, which is a little oblique and almost imperceptibly curved outward; poisers ferruginous. Length of the body 2—2 $\frac{3}{4}$  lines; of the wings 5 lines.

a. Congo. Presented by Sir J. Richardson.

Group XXVIII. *Camptoneura*, Macq.

**TRYPETA** picta, Wied. Auss. Zweif. ii. *Musca* picta, Fabr. Ent. Syst. iv. 355, 175. *Dictya* picta, Fabr. Syst. Antl. 330, 18. *Tephritis* conica, Fabr. Syst. Antl. 318, 10. *Camptoneura*, Macq. Dipt. Exot. ii. 3, 201, 1, pl. 27, f. 4.

a. North America. Presented by the Entomological Club.

b. Massachusetts. From Prof. Sheppard's collection.

c. ———?

Group XXIX. *Ceratitis*, *Macleay*.

*TRYPETA capitata*, *Wied. Anal. Ent.* 55, 124. *Auss. Zweif.* ii. 496, 30. *Petalophora capitata*, *Macq. Hist. Nat. Dipt.* ii. 454, 1. *Ceratitis citriperda*, *Macleay, Zool. Journ.* iv. 475, pl. 15. *Macq. Dipt. Exot.* ii. 3, 219, pl. 29, f. 10.

a. ———? From Mr. Children's collection.

*TRYPETA* *Cosyra*, n. s., fem. *Fulva, thorace vittis tribus obscurioribus, lateribus scutelloque nigris flavo radiatis, abdominis disco nigricante, antennis ferrugineis, palpis pedibusque flavis, alis fulvo fasciatis basi costaque fusco maculatis.*

Body pale tawny, beset with a few stout black bristles: head yellow in front and beneath; sides of the face without bristles; epistoma very slightly prominent: eyes red, convex; all the facets very small: sucker yellow, clothed with yellow hairs; palpi yellow, beset with black bristles: feelers pale ferruginous, shorter than the face; third joint rather large, linear above, slightly convex beneath, somewhat truncated at the tip, full thrice the length of the second joint: three dark tawny stripes on the chest; its sides and the scutcheon black, adorned with slender yellow rays: abdomen obconical, suddenly tapering towards the tip, not much longer than the chest; its disk somewhat blackish: legs yellow, beset with a few yellow bristles; feet darker; claws black: wings colourless, with several brown dots near the base and along the fore border, adorned also with some tawny marks; one of these is at the base; the second forms a band across the wing, becomes brown on the hind border, joins a stripe which proceeds along the fore border to the tip, and there is also brown; an oblong brown spot clouds the lower cross-vein; wing-ribs and veins tawny; middle cross-vein very oblique; lower cross-vein hardly curved inward, nearly upright, parted by much more than its length from the middle cross-vein, by twice its length from the tip, and by less than half its length from the lower border; poisers pale tawny. Length of the body 2 lines; of the wings 4 lines.

a. Congo. Presented by Sir J. Richardson.

## PSILA, Meigen.

Group I. Oblicia, Desv. *Essai Myod.* 620.

*PSILA fimetaria*, Meig. *Dipt.* v. 356, 1. Zett. *Mon. Scat. Ann. Soc. Ent. Fr.* iv. 177, 1. *Ins. Lapp.* 4, 759, 1. *Musca fimetaria*, Linn. *Syst. Nat.* ii. 996. *Faun. Suec.* 1862. *Gmel. Ed. Syst. Nat.* i. 5, 2853, 106. *Fabr. Sp. Ins.* ii. 449, 75. *Ent. Syst.* iv. 346, 140. *Schrank, Ins. Austr.* 951. *Turt.* iii. 615. *M. flava*, Schell. *Gen. Mouch. tab.* 5. *Panz. Faun. Germ.* 20, 22. *M. luteus*, Harr. *Ex.* 116, pl. 34, f. 16. *Volucella fimetaria*, Schrank, *Faun. Boic.* iii. 2498. *Scatophaga fimetaria*, Fabr. *Syst. Antl.* 204, 5. *Fall. Opomyz.* 8, 1. *Psilomyia fimetaria*, Latr. *Regn. Anim. Macq. Hist. Nat. Dipt.* ii. 421, 1. *Oblicia testacea*, Desv. *Essai Myod.* 620, 1.

a. England.

b. Ukraine. Presented by Dr. Dowler.

*PSILA pallida*, Meig. *Dipt.* v. 357, 2. *Macq. Hist. Nat. Dipt.* ii. 421, 1. *Scatophaga pallida*, Fall. *Opomyz.* 9, 2. Zett. *Mon. Scat. Ann. Soc. Ent. Fr.* iv. 178, 3. *Ins. Lapp.* 4, 759, 3.

a. England. Presented by F. Walker, Esq.

b. ———?

*PSILA rufa*, Hoffmannsegg, Meig. *Dipt.* v. 357, 3. *Scatophaga rufa*, Zett. *Mon. Scat. Ann. Soc. Ent. Fr.* iv. 177, 2. *Ins. Lapp.* 4, 759, 2.

a. England. Presented by F. Walker, Esq.

*PSILA bicolor*, Meig. *Dipt.* v. 358, 4, pl. 51, f. 13. *Macq. Hist. Nat. Dipt.* ii. 421, 3. *Scatophaga pallida*, var.  $\beta$ , Fall. *Dipt. Suec. Opomyz.* 9, 2. *S. bicolor*, Zett. *Mon. Scat. Ann. Soc. Ent. Fr.* iv. 178, 4. *Ins. Lapp.* 4, 759, 4.

a. England. Presented by F. Walker, Esq.

b. ———?

*PSILA Rosæ*, Meig. *Dipt.* v. 358, 6, pl. 51, f. 12. *Macq. Hist. Nat. Dipt.* ii. 421, 4. *Musca Rosæ*, Fabr. *Ent. Syst.* iv. 356, 181. *Tephritis Rosæ*, Fabr. *Syst. Antl.* 319, 12. *Scatophaga Rosæ*, Fall. *Opomyz.* 9, 3. Zett. *Mon. Scat. Ann. Soc. Ent. Fr.* iv. 181, 8. *Ins. Lapp.* 4, 760, 7.

a. England.

b. ———?

LOXOCERA, *Fabr.*

LOXOCERA ichneumonea, *Fabr. Syst. Antl.* 202. *Latr. Gen. Crust.* iv. 356. *Cons. Gen.* 444. *Fall. Opomyz.* 7, 1. *Meig. Dipt.* v. 363, 1. *Desv. Essai Myod.* 667, 2. *Macq. Hist. Nat. Dipt.* ii. 373, 1. *Zett. Ins. Lapp.* 757, 1. *Musca ichneumonea, Linn. Syst. Nat.* ii. 986. *Faun. Suec.* 1809. *Gmel. Ed. Syst. Nat.* i. 5, 2873, 42. *Schell. Gen. Mouch. tab.* 7. *M. aristata, Panz. Faun. Germ.* lxxiii. f. 24. *Syrphus ichneumoneus, Fabr. Sp. Ins.* ii. 429, 39. *Ent. Syst.* iv. 297, 70. *Mulio ichneumonea, Fabr. Ent. Syst. Suppl.* 559, 7. *Nemotelus al-  
msetus, Schrank, Faun. Boic.* iii. 2406. *Musca longeno,  
Harr. Ex.* 162, pl. 45, f. 79.

a. England.

b. France.

LOXOCERA elongata, *Meig. Dipt.* v. 364, 2. *Macq. Hist. Nat. Dipt.* ii. 373, 2.

a. England.

LOXOCERA sylvatica, *Meig. Dipt.* v. 365, 3, pl. 51, f. 22. *Macq. Hist. Nat. Dipt.* ii. 374, 3.

a. England.

LOXOCERA paradoxa, *Latr. Desv. Essai Myod.* 666, 1.

a. France.

CHYLIZA, *Fallen.*

CHYLIZA scutellata. *Sargus scutellatus, Fabr. Ent. Syst. Suppl.* 567, 5. *Syst. Antl.* 257, 8. *Musca leptogaster, Panz. Faun. Germ.* 54, 19. *Chyliza leptogaster, Fall. Opomyz.* 7, 2. *Meig. Dipt.* v. 368, 1. *Macq. Hist. Nat. Dipt.* ii. 379, 1.

a. France.

CHYLIZA atriseta, *Meig. Dipt.* v. 369, 2, pl. 51, f. 26. *Macq. Hist. Nat. Dipt.* ii. 380, 3. *Dasyna fuscipennis, Desv. Essai Myod.* 668, 1.

a. England. Presented by F. Walker, Esq.

b. France.

CHYLIZA vittata, *Meig. Dipt.* v. 369, 3, pl. 51, f. 25. *Macq. Hist. Nat. Dipt.* ii. 380, 5.

a. France.

*CHYLIZA annulipes*, Macq. *Hist. Nat. Dipt.* ii. 380, 2.

a. England. Presented by F. Walker, Esq.

*CHYLIZA metallica*, Barnston's MSS., mas. et fem. *Viridis, capite subtus facieque flavis, palpis antennisque ferrugineis, pedibus fulvis, femoribus et tibiis anticis femoribusque posticis cyaneo-viridibus, tarsis anticis nigris, alis limpidis.*

*Male*.—Body dark green, shining: head and chest beset with a few black bristles: crown of the head black; face and under-side pale yellow; sides of the face without bristles; epistoma not prominent: eyes red; fore part composed of larger facets than those elsewhere: sucker ferruginous, clothed with tawny hairs; palpi ferruginous, beset with black bristles: feelers ferruginous, partly pitchy, clothed with short black hairs, as long as the face; third joint nearly elliptical, as long as the second; bristle black, downy, longer than the third joint: abdomen spindle-shaped, a little longer than the chest: legs tawny, clothed with very short black hairs; fore thighs and fore shanks blue, tawny at the base; fore feet black, rather broad; hind thighs bluish green: wings colourless; wing-ribs and veins pale yellow; longitudinal veins straight; lower cross-vein straight, almost perpendicular, more than twice its length distant from the middle cross-vein; poisers tawny. *Fem*.—Abdomen ferruginous at the base beneath, much attenuated towards the tip, full twice the length of the chest. Length of the body  $1\frac{1}{2}$ —2 lines; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

#### *PROCHYLIZA*, n. g.

Body narrow: head advanced in front and forming a protuberance on which the feelers are seated: feelers longer than the head; first joint short; second very long; third elliptical, about half the length of the second.

*PROCHYLIZA xanthostoma*, n. s., mas. *Nigra, nitens, capite subtus et facie flavis, abdomine subcompresso, palpis flavis, antennis piceis, pedibus fulvis, femoribus et tibiis anticis, tarsis posterioribus apice tarsisque anticis piceis, alis limpidis angustis.*

Body black, shining, thinly clothed with short black hairs: head and chest beset with a few black bristles: head narrow, yellow beneath; face yellow, with a single bristle on each side at the base; epistoma not prominent: eyes pitchy, convex; facets of the fore



part larger than those elsewhere: sucker and palpi yellow: feelers pitchy, clothed with short black hairs; bristle black, bare, a little longer than the third joint: abdomen nearly cylindrical, slightly compressed, a little deeper towards the tip, rather longer than the chest: legs tawny; fore feet, and tips of the fore thighs, of the fore shanks and of the four hinder feet pitchy; claws black: wings colourless, narrow; wing-ribs tawny; veins pitchy, tawny at the base; lower cross-vein straight, perpendicular, distant by less than its length from the hind border, by more than twice its length from the middle cross-vein, and by more than four times its length from the tip of the wing; poisers tawny, with yellow knobs. Length of the body  $1\frac{1}{4}$  line; of the wings  $2\frac{1}{4}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

LISSA, Meigen.

LISSA dolium. Ocyptera dolium, *Fabr. Syst. Antl.* 315. Chyliza loxocerina, *Fall. Opomyz.* 6, 1. Lissa loxocerina, *Meig. Dipt.* v. 370, pl. 52, f. 1—4. *Macq. Hist. Nat. Dipt.* ii. 377, 1.

a. England.

LISSA varipes, n. s., mas. *Nigra, nitens, capite canescente facie alba, abdominis apice compresso, palpis antennisque fulvis, pedibus nigris ferrugineo piceo fulvoque variis.*

Body long, narrow, black, shining: head beset with a few black bristles, covered above and in front with hoary bloom; face white, with a single bristle on each side at the base; epistoma not prominent; eyes dark red, convex; facets of the fore part larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, as long as the face; third joint linear, rounded at the tip, paler and a little longer than the second; bristle black, slender, feathered with long hairs, longer than the third joint: abdomen nearly cylindrical, slightly deepening towards the tip, where it is compressed, narrower and very much longer than the chest, thinly clothed with very short hoary hairs: fore thighs tawny, beset beneath with a few long black bristles; fore shanks ferruginous, tawny at the base, armed with a few long black bristles; fore feet pitchy, ferruginous at the base; foot-cushions tawny; claws black; middle thighs black, tawny at the base; middle shanks and feet pitchy, first joint of the latter dark tawny; hind thighs black, pale tawny at the base; four hinder knees ferruginous; four hinder shanks beset with a few short black bristles; hind

shanks black, pitchy towards the base; hind feet ferruginous: wings slightly gray, clouded with brown at the tips and about the cross-veins; wing-ribs and veins tawny, the latter pitchy at the tips and in the darker parts of the wings; lower cross-vein straight, perpendicular, distant by more than half its length from the hind border, by more than its length from the middle cross-vein, and by more than four times its length from the tip of the wing; longitudinal veins straight; poisers tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 5 lines.

a. Ohio. Presented by the Entomological Club.

*Lissa cornuta*, Barnston's MSS., mas. *Nigra, capite albo micante antice fulvo, palpis antennisque nigris, his basi pedibusque fulvis, femoribus nigris, alis subcinereis.*

Body black, shining, clothed with black hairs and bristles: head adorned with white reflections, tawny and prominent in front; sides of the face without bristles; epistoma not prominent: sucker black, clothed with tawny hairs: palpi black, beset with black bristles: feelers black, much shorter than the face; first and second joints tawny; third joint not longer than the second; bristle downy, thrice the length of the third joint: abdomen cylindrical, very slightly increasing in breadth towards the tip, narrower than the chest and almost twice its length: legs tawny, clothed with black hairs and bristles; thighs black, with tawny tips: wings slightly gray; wing-ribs tawny; veins pitchy, tawny towards the base; lower cross-vein straight; scales very small, whitish, with pale yellow borders; poisers pale tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings  $3\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*Lissa carbonaria*, n. s., fem. *Atra, nitens, facie fulva, abdomine cinerascens, palpis, antennis pedibusque nigris, tibiis ferrugineis apice piccis, tarsis piccis, alis subcinereis, basi nervorumque marginibus fulvis.*

Body black, shining: head and chest beset with black bristles: face tawny, its sides without bristles; epistoma not prominent: eyes pitchy; facets of the fore part a little larger than those elsewhere: sucker black, pitchy and clothed with tawny hairs towards the tip; palpi black, beset with black bristles: feelers black, a little shorter than the face; third joint nearly linear, rounded at the tip, longer than the second joint; bristle hairy: abdomen spindle-shaped, covered with gray bloom, thinly clothed with black hairs,

much longer than the chest: legs black, clothed with short black hairs; shanks ferruginous, pitchy towards the tips, beset with black bristles; feet pitchy; foot-cushions tawny; claws black: wings slightly gray, tawny at the base and along the borders of the veins; wing-ribs and veins tawny; veins darker towards the tips; lower cross-vein pitchy, nearly straight and perpendicular, distant by less than its length from the hind border, by twice its length from the middle cross-vein, and by thrice its length from the tip of the wing; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. New York. Presented by E. Doubleday, Esq..

• CALOBATA, *Fabr.*

CALOBATA *petronella*, *Fabr. Syst. Antl.* 262, 10. *Meig. Dipt.* v. 377, 1. *Macq. Hist. Nat. Dipt.* ii. 490, 2. *Zett. Ins. Lapp.* 4, 756, 2. *Musca petronella*, *Linn. Syst. Nat.* ii. 994. *Faun. Suec.* 1856. *Gmel. Ed. Syst. Nat.* i. 5, 2850, 96. *Fabr. Sp. Ins.* ii. 447, 57. *Ent. Syst.* iv. 336, 103. *Schell. Gen. Mouch. pl.* 6, f. 2. *Schrank, Ins. Austr.* 646. *Turt.* iii. 611. *Calobata corrigiolata*, *Fall. Opomyz.* 2, 3.

a. England.

CALOBATA *Alesia*, n. s., mas. et fem. *Nigra, nitens, capite abdominis mari. apice antennis pedibusque fulvis, tibiis obscurioribus, femoribus apice fusco cinctis, alis limpidis.*

Nearly allied to *C. petronella*, but the legs are rather shorter, and the bands on the thighs are narrower. Body black, shining: head and chest beset with a few black bristles: head prominent, tawny in front and beneath; sides of the face without bristles; epistoma not prominent: eyes red; fore part rather flat, its facets larger than those elsewhere: sucker tawny, clothed with pale hairs; palpi yellow: feelers bright tawny, much shorter than the face; third joint conical, longer than the second; bristle black, clothed with short hairs, stout at the base, about thrice the length of the third joint: abdomen linear, a little narrower than the chest and nearly twice its length; tip and appendages of the male tawny: legs tawny, rather long, clothed with very short tawny hairs; claws with black tips; fore thighs yellow; a brown band at the tip of each hind thigh; hind shanks of the male brown, of the female dark tawny: wings colourless, rather short; wing-ribs and veins tawny; fore border pitchy towards the tip: third and fourth longitudinal veins approaching each other in the latter part of their course, the fourth forming a very slight angle at its junction with

the lower cross-vein; middle cross-vein straight, slightly oblique; lower cross-vein nearly upright, very slightly curved outward, parted by much more than four times its length from the middle cross-vein and from the end of the fourth longitudinal vein, and by less than its length from the end of the fifth longitudinal vein; poisers pale tawny. Length of the body 3 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CALOBATA cibaria*, Meig. *Dipt.* 378, 2. *Macq. Hist. Nat. Dipt.* ii. 490, 1. *Zett. Ins. Lapp.* 4, 756, 1. *Musca cibaria*, Linn. *Syst. Nat.* ii. 995. *Faun. Suec.* 1859. *Gmel. Ed. Syst. Nat.* i, 5, 2853, 102. *Schrank, Faun. Boic.* iii. 2497. *Calobata cothurnata*, Fall. *Geomyz.* 2, 2. *C. solidaginis*, Desv. *Essai Myod.* 7391. *C. soror*, Desv. *E. M.* 739, 2.

a. England.

*CALOBATA cothurnata*, Meig. *Dipt.* v. 379, 3, pl. 52, f. 18, 19. *Macq. Hist. Nat. Dipt.* ii. 490, 3. *Musca cothurnata*, Panz. *Faun. Germ.* 54, 20.

a. England.

*CALOBATA sellata*, Meig. *Dipt.* v. 380, 5. *Macq. Hist. Nat. Dipt.* ii. 490, 5.

a. England.

*CALOBATA univitta*, n. s., mas. *Ferruginea, capite pectoreque albo tectis, thorace nigro univittato, abdominis disco nigro, palpis antennis pedibusque fulvis, femoribus posticis apice fusco cinctis, alis subfulvis.*

Body ferruginous: head adorned with a white covering; sides of the face without bristles; epistoma not prominent: eyes pitchy, convex, all the facets very small; sucker pitchy, clothed with tawny hairs; palpi tawny: feelers tawny, much shorter than the face; third joint longer than the second, rounded at the tip; bristle black, feathered to the tip with very short hairs, more than twice the length of the third joint: chest adorned with a black stripe; breast with a whitish tinge: abdomen linear, cylindrical, narrower and much longer than the chest; disk black: legs tawny, rather long; feet darker towards the tips; claws black; a brown band very near the tip of each hind thigh: wings narrow, slightly tawny; wing-ribs tawny; veins pitchy, tawny towards the base; third and fourth longitudinal veins including a lengthened, spindle-shaped areolet, approaching rather near to each other at the tip of the wing; lower cross-vein very slightly curved outward,

nearly upright, parted by near four times its length from the middle cross-vein and from the tip of the wing, and by more than half its length from the hind border; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

a. New York. Presented by E. Doubleday, Esq.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

CALOBATA ephippium, *Fabr. Syst. Antl.* 263, 13. *Fall. Geomyz.* 4, 5. *Meig. Dipt.* v. 380, 6. *Macq. Hist. Nat. Dipt.* ii. 491, 6. *Musca cphippium*, *Fabr. Ent. Syst.* iv. 338, 108. *Panz. Faun. Germ.* 27, 21. *Neria Inulæ*, *Desv. Essai Myod.* 738, 8.

a. England. •

CALOBATA testacea, *Fabr. Syst. Antl.* 261, 5. *Wied. Auss. Zweif.* ii. 534, 4.

a. Brazil.

CALOBATA fulva, n. s., fem. *Fulva, facie flava, abdominis apice nigro, antennis pedibusque fulvis, tibiis ferrugineis, tarsis piceis, alis subfulvis.*

Nearly allied to *C. testacea*. Body tawny: head beset with a few black bristles; face yellow, its sides without bristles; epistoma not prominent: eyes pitchy, convex; facets of moderate and equal size: sucker and palpi black? feelers dark tawny, shorter than the face; third joint nearly linear, rounded at the tip, full thrice the length of the second; bristle black, feathered with hairs of moderate length, near thrice the length of the third joint: chest darker than the breast, which is partly clothed with tawny hairs: abdomen more than twice the length of the chest, dart-shaped towards the tip, which is black: legs tawny, very long; shanks ferruginous, thickly clothed with very short black hairs: feet pitchy, clothed beneath with golden down for more than half the length from the base: wings slightly tawny; wing-ribs and veins tawny; third longitudinal vein curved upward towards the tip, nearly joining the second on the border of the wing at the tip: lower cross-vein very slightly curved outward, more than four times its length from the middle cross-vein; poisers tawny. Length of the body 7 lines; of the wings 11 lines.

a. Para.

CALOBATA annulata (var. ?), *Fabr. Syst. Antl.* 262, 7. *Wied. Auss. Zweif.* ii. 534, 5. *Musca annulata*, *Fabr. Ent. Syst.* iv. 338, 111.

a. Brazil.

*CALOBATA albitarsis*, Wied. *Zool. Mag.* iii. 19, 26. *Auss. Zweif.* ii. 544, 22.

a. Port Essington. From Mr. Gould's collection.

*CALOBATA albigana*, Macq. *Dipt. Exot.* ii. 3, 245, 3, pl. 33, f. 3.

a. Bengal.

b. Ohio. Presented by the Entomological Club.

c. Georgia. From Mr. Abbot's collection.

d. ——— ?

*CALOBATA indica*. *Nerius indicus*, Desv. *Essai Myod.* 737, 4.

a. Bengal.

*CALOBATA tarsata*, Wied. *Auss. Zweif.* ii. 541, 18. *Macq. Dipt. Exot.* ii. 3, 245, 4.

a. ——— ?

*CALOBATA robusta*, n. s., mas. *Cyanea cano tecta, capite fulvo, abdominis apice subtus suturisque ferrugineis, palpis piceis, antennis ferrugineis, pedibus piceis, femoribus anticis ferrugineis apice piceis, femoribus posterioribus apice flavo cinctis, femoribus posticis basi tarsisque anticis flavis, tibiis posterioribus fulvis, alis subcinereis fusco variis.*

Body blue, covered with a hoary bloom: head and chest beset with very few black bristles: head tawny, adorned with white lustre, bright blue on the crown, with the exception of a velvet-like stripe, which is ferruginous behind and black in front: sides of the face without bristles; epistoma blue, not prominent: eyes brassy red, convex; the facets of moderate and equal size: sucker pitchy, blue beneath, clothed with tawny hairs; palpi pitchy, beset with black bristles: feelers ferruginous, a little shorter than the face; second joint beset with a few short black bristles; third joint linear, rounded at the tip, full four times the length of the second; bristle black, slender, bare, tawny at the base, more than twice the length of the third joint: abdomen much narrower than the chest and nearly twice its length; sutures of the segments and under side at the tip ferruginous: fore legs clothed with black down; fore thighs ferruginous, with pitchy tips; fore shanks pitchy; fore feet pale yellow, clothed with whitish down, brown at the base on the under side, where they are clothed with short black hairs; four hinder thighs pitchy, adorned with a pale yellow band near the tip; four hinder shanks dark tawny; hind thighs pale yellow at the base; claws black: wings slightly gray, adorned with a large irregular brown spot, which is included between the longitudinal veins and the cross-veins; two small paler brown spots near the tips, which

are slightly tinged with brown; wing-ribs tawny; veins black, tawny at the base; third longitudinal vein slightly inclined upward after its junction with the lower cross-vein, approaching very near the second at the tip of the wing; lower cross-vein nearly straight, slightly oblique, distant by more than half its length from the hind border, by much more than thrice its length from the middle cross-vein, and by full five times its length from the tip of the wing; poisers ferruginous, with pitchy knobs. Length of the body 5 lines; of the wings 8 lines.

a. ——— ?

*CALOBATA* respondens, n. s., mas. *Cinereo-nigra, capite cyaneo albo micante, abdominis suturis ventreeque piceis, antennis ferrugineis, pedibus piceis, femoribus antieis basi flavis, femoribus posticis flavo trilineatis, tibiis posticis ferrugineo fasciatis, tarsis anticis flavis basi piceis, alis limpidis fusco bifasciatis.*

Body black, slightly tinged with gray: head and chest beset with a few black bristles: head blue, shining, adorned with white lustre; crown velvet-like black, excepting the sides and a space about the eyelets, which is pitchy, and covered with hoary bloom; sides of the face without bristles; epistoma slightly prominent: eyes red; facets of the fore part a little larger than those elsewhere: sucker pitchy, clothed with tawny hairs: feelers ferruginous, shorter than the face; third joint conical, darker and a little longer than the second; bristle black, slender, bare, ferruginous at the base, full thrice the length of the third joint: abdomen cylindrical, not half the breadth of the chest, but more than twice its length; borders of the segments and under side pitchy: legs dark pitchy; fore thighs yellow at the base; fore feet yellow, pitchy at the base; hind thighs adorned with three yellow bands; hind shanks ferruginous from the middle till near the tips; claws black: wings colourless, adorned with two brown bands; one near the base, disappearing as it approaches the hind border; the second darker and more complete than the first, extending a little beyond the lower cross-vein; wing-ribs and veins tawny, the latter pitchy in the brown parts of the wing; lower cross-vein straight, nearly perpendicular, distant by more than thrice its length from the middle cross-vein; poisers yellow, with pitchy knobs. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

——— Var. Mas. *Nigro-cyanea, canescens, palpis nigris, antennis ferrugineis, pedibus fuscis, femoribus posticis flavo trifasciatis, tarsis nigris, alis limpidis fusco trifasciatis.*

Body black: crown of the head beset with a few black bristles, its sides dark blue; sides of the face without bristles; epistoma prominent: eyes red, convex; all the facets small: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers ferruginous, shorter than the face; third joint conical, longer than the second; bristle black, bare, very slender, pale tawny at the base, about thrice the length of the third joint: chest and breast bluish black, with a slight hoary tinge; sides of the hind part of the chest clothed with a few long tawny hairs: abdomen black, linear, narrower than the chest and nearly twice its length: legs dark brown (middle legs wanting); feet black; hind thighs adorned with three yellow bands: wings colourless, adorned with three brown bands, the first at one-third from the base, the second broad, the third at the tip; wing-ribs tawny; veins black, tawny at the base; third longitudinal vein slightly curved upward, approaching near to the second at the tip of the wing; lower cross-vein near the tip of the wing, very slightly curved outward, more than four times its length from the middle cross-vein; poisers tawny, with pitchy knobs.

a. Congo. Presented by Sir J. Richardson.

CALOBATA Aloa, n. s. C. fasciata var.? Fem. *Nigra, facie ferruginea, abdomine cyaneo, palpis antennisque nigris, harum articulo 3<sup>o</sup> basi ferrugineo, pedibus nigris, tarsis albis, femoribus posterioribus fulvis, alis limpidis fusco trifasciatis.*

Body black: head beset above with a few black bristles, clothed beneath with short black hairs; sides of the face without bristles; epistoma not prominent; face ferruginous: eyes bare, dark red, convex; all the facets small: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers black, longer than the face; third joint slightly conical, rounded at the tip, ferruginous at the base beneath, more than thrice the length of the second joint; bristle bare, slender, much more than twice the length of the third joint: chest beset with a few black bristles: abdomen dark blue, somewhat lengthened, tapering towards the tip, thinly clothed with short black hairs: legs black, clothed with very short black hairs; second, third and fourth joints of the feet white; four hinder thighs dark tawny: wings colourless, adorned with three dark brown bands; the first narrow at one-third of the length from the base, the second very broad, the third at the tip, joining the se-



cond by the hind border, the colourless band between them is curved outward; wing-ribs and veins black; third longitudinal vein curved upward towards the tip, nearly joining the second on the border of the wing at the tip; lower cross-vein straight, very oblique, near the hind border, more than its length distant from the middle cross-vein; poisers black. Length of the body 4 lines; of the wings 7 lines.

a. Jamaica. From Mr. Gosse's collection.

CALOBATA Uzita, n. s., mas. *Cyanea, vertice thoracisque disco fulvo ornatis, abdominis apice subtus piceo, palpis nigris, antennis pedibusque fulvis, horum femoribus apice tibiisque nigris, tarsis nigris basi flavis, alis subfulvis apice subfuscis.*

Body dark blue, long, narrow: crown of the head and disk of the chest adorned with tawny bloom: head oblong; sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets very small: sucker and palpi black; sucker clothed with tawny hairs: feelers bright tawny; third joint conical, a little longer than the second; bristle black, slender, bare, much more than thrice the length of the third joint: chest spindle-shaped, slightly compressed: abdomen linear, cylindrical, somewhat pitchy beneath at the tip, narrower than the chest and nearly twice its length: four hinder legs wanting; fore legs tawny; shanks and tips of the thighs black; feet black, first and second joints pale yellow, tip of the second joint dark brown: wings narrow, with a very slight tawny tinge, brownish at the tips and at the end of the second longitudinal vein; wing-ribs and veins tawny; third and fourth longitudinal veins including a lengthened spindle-shaped areolet, approaching very near each other at the tip; lower cross-vein brown, slightly curved outward, parted by more than four times its length from the middle cross-vein and from the tip of the wing, and by rather more than half its length from the hind border; poisers tawny, with ferruginous knobs. Length of the body 6 lines; of the wings 9 lines.

a. ——— ?

CALOBATA Abana, n. s., mas. *Ferruginea, abdomine piceo, palpis antennisque ferrugineis, pedibus fulvis, femoribus posterioribus flavo trifasciatis, pedibus anticis tarsisque fuscis, alis subcinereis.*

Body dull ferruginous: head beset with very few bristles; sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets small: sucker and palpi dull ferruginous; sucker large, tawny at the base, clothed with a few tawny

hairs: feelers ferruginous, much shorter than the face; third joint nearly linear, rounded at the tip, full twice the length of the second; bristle downy, very slender, near thrice the length of the third joint: chest spindle-shaped: breast with a slight hoary tinge: abdomen pitchy, linear, cylindrical, much longer and narrower than the chest: legs dull tawny, long, slender; four hinder thighs adorned with three indistinct yellow bands; feet and fore legs brown: wings pale gray; wing-ribs and veins tawny; third and fourth longitudinal veins including a spindle-shaped areolet, approaching near to each other at the tip; lower cross-vein nearly straight, slightly oblique, parted by more than thrice its length from the middle cross-vein and from the tip of the wing, and by less than half its length from the hind border; poisers tawny. Length of the body 4 lines; of the wings 8 lines.

a. ——— ?

*CALOBATA erythrocephala*, *Fabr. Syst. Antl.* 260, 1. *Wied. Auss. Zweif.* ii. 532, 1.

a. Para. Presented by J. P. George Smith, Esq.

b. Mexico. From Mr. Argent's collection.

c. Brazil.

*CALOBATA apicalis* (n. g.?), n. s., fem. *Fusca, capite ferrugineo subtus flavo, thorace flavo quadrivittato, abdomine piceo-flavo, palpis piceis, antennis nigris, seta flava basi apiceque picea, pedibus fulvis, femoribus tibiisque apice tarsisque piceis, alis subfuscis ad costam obscurioribus.*

Body brown, slender: head and chest beset with some black bristles: head ferruginous above, yellow beneath; crown with a broad pitchy stripe, adorned with white lustre; sides of the face not bristly; epistoma not prominent: eyes red, oblong; the facets rather large: sucker pale tawny, pitchy at the tip; palpi pitchy: feelers black, shorter than the head; first and second joints very short; third joint conical, much longer than the first and the second; bristle slender, pale yellow, clothed with very short hairs along the whole length, pitchy at the base and at the tip, proceeding from the tip of the third joint and nearly thrice its length: chest adorned with two yellow stripes on the back and with a broad yellow stripe on each side: abdomen dark tawny, partly pitchy, nearly linear, pointed at the tip, longer and a little narrower than the chest: legs dark tawny, rather long; thighs rather broad, especially the hind pair; feet and tips of the thighs and of the shanks pitchy; claws black; foot-cushions pale tawny: wings pale brown, dark brown along the fore borders; wing-ribs yellow; veins pitchy,

tawny at the base ; longitudinal veins straight, with the exception of the fourth, which curves upward and at the tip approaches the third vein ; middle cross-vein short, straight, nearly upright ; lower cross-vein a little oblique, slightly curved outward, parted by more than twice its length from the middle cross-vein, by more than four times its length from the tip, and by more than half its length from the hind border ; poisers and scales pale yellow, the latter small. Length of the body 3 lines ; of the wings 5 lines. Distinguished from other species by the insertion of the feeler-bristle.

a. West Africa. Presented by W. Raddon, Esq.

### MICROPEZA, Meigen.

MICROPEZA *lateralis*, Meig. *Dipt.* v. 383, 1, pl. 53, f. 5. Macq. *Hist. Nat. Dipt.* ii. 492, 2.

a. England.

MICROPEZA *corrigiolata*, Meig. *Dipt.* v. 384, 2, pl. 53, f. 6. Macq. *Hist. Nat. Dipt.* ii. 492, 1. *Musca corrigiolata*, Linn. *Syst. Nat.* ii. 995. *Fabr. Sp. Ins.* ii. 447, 59. *Ent. Syst.* iv. 339. *Gmel. Ed. Syst. Nat.* i. 5, 2852, 100. *Schränk, Ins. Austr.* 949. *Schell. Gen. Mouch.* pl. 6, f. 1. *M. filiformis*, *Fabr. Ent. Syst.* iv. 337, 105. *M. pedo*, *Harr. Ex.* 115, pl. 34, f. 16. *Calobata corrigiolata*, *Fabr. Syst. Antl.* 263, 15. *C. filiformis*, *Fabr. Syst. Antl.* 263, 14. *Fall. Opomyz.* 3, 4. *Latr. Gen. Crust.* iv. 352. *Rhagio corrigiolata* *Schränk, Faun. Boic.* iii. 2400. *Phantasma filiformis*, *Desv. Essai Myod.* 740, 1.

a. England.

b. France.

MICROPEZA *producta*, n. s., mas. *Ferruginea, capite subtus flavo, thorace subcompresso, abdomine apice piceo, palpis flavis, antennis nigris, pedibus fulvis, femoribus tibiisque apice tarsisque piceis, alis limpidis.*

Body bright ferruginous, very slender : head and chest beset with a few black bristles : head lengthened in front, yellow beneath ; sides of the face without bristles : eyes pitchy : sucker and palpi yellow : feelers black ; third joint nearly round, much longer than the second ; bristle black, slender, bare, more than twice the length of the third joint : chest slightly compressed : abdomen linear, cylindrical, a little narrower than the chest and nearly twice its length, pitchy above towards the tip, tawny beneath and at the tip : legs tawny, long, slender ; feet and tips of the thighs and of the

shanks pitchy: wings colourless, short, very narrow; wing-ribs and veins yellow; fourth and fifth longitudinal veins united near the tip of the wing; lower cross-vein straight, slightly oblique, parted by more than five times its length from the middle cross-vein and from the tip of the wing, and by rather less than its length from the hind border; poisers tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 3 lines.

a. Georgia. From Mr. Abbot's collection.

Group Cardicephala, *Macq. Dipt. Exot.*

*MICROPEZA cephalotes*, n. s. *Ferruginea, capite nigro, palpis antennisque piceis, pedibus ferrugineis, femoribus posticis coxisque fulvis, tarsis piceis, posticis basi flavis, alis subcinereis fusco bicinctis.*

Body pale ferruginous: head and chest beset with a few black bristles: head black, nearly oval, thinly clothed with short black hairs, advanced in front; sides of the face without bristles; epistoma slightly prominent: eyes small, pitchy; facets of the fore part larger than those elsewhere: sucker ferruginous, clothed with tawny hairs; palpi pitchy: feelers pitchy, as long as the face; third joint conical, more than thrice the length of the second joint; bristle black, slender, downy, tawny at the base, much more than twice the length of the second joint: chest long, tapering towards the neck, where it is armed with two protuberances: abdomen narrower than the chest: legs ferruginous, slender, very long; hips and hind thighs tawny; feet pitchy; claws black; foot-cushions yellow; first joint of the hind feet pale yellow: wings long, narrow, slightly gray, adorned with two broad pale brown bands, the first near the base, the second broader and darker than the first, and extending a little beyond the lower cross-vein; wing-ribs tawny; veins pitchy, tawny at the base; third longitudinal vein nearly straight till half the space between its junction with the lower cross-vein and the tip of the wing, thence inclined upward and terminating very near the second vein, which is slightly inclined downwards towards it; lower cross-vein perpendicular, nearly straight, distant by less than its length from the hind border, by full four times its length from the middle cross-vein, and by full five times its length from the tip of the wing; poisers tawny. Length of the body  $4\frac{1}{2}$  lines; of the wings 7 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

## LONGINA, Wiedemann.

LONGINA Wiedemanni, *Perty, Del. Anim. Articul.* 188, pl. 37, f. 11.

a. Brazil. From Mr. Walker's collection.

## NERIUS, Wiedemann.

NERIUS fuscus, *Wied. Anal. Entom.* 15, f. 1. *Auss. Zweif.* ii. 550, 2, pl. 10, f. 2.

a. Brazil. Presented by J. P. George Smith, Esq.

NERIUS fuscipennis, *Macq. Dipt. Exot.* ii. 3, 241, 1, pl. 325, f. 5.

a. Philippine Islands. From Mr. Wood's collection.

b. Philippine Islands. From Mr. Wood's collection.

NERIUS rubescens, *Macq. Dipt. Exot.* ii. 3, 242, 2, pl. 32, f. 6.

a. Madras. Presented by Walter Elliot, Esq.

b. Bengal.

## ULIDIA, Meigen.

ULIDIA demandata, *Meig. Dipt.* v. 386, 1, pl. 53, f. 12. *Macq. Hist. Nat. Dipt.* ii. 504, 1. *Musca demandata, Fabr. Ent. Syst. Suppl.* 564. *Tephritis demandata, Fabr. Syst. Antl.* 324, 37. *Chrysomya splendida, Fall. Scenop.* 4, 1.

a. England. Presented by F. Walker, Esq.

ULIDIA melanopsis, n. s., fem. *Viridis, nitens, capite ferrugineo, facie alba antice nigra, abdominis lateribus æneis, palpis nigris, antennis pedibusque fulvis, femoribus piceo unimaculatis, tarsis anticis flavis apice piceis, alis albidis.*

Body very bright green, smooth, shining: head and chest beset with a few black bristles: head ferruginous; face whitish, black in front; its sides without bristles; epistoma not prominent: eyes pitchy, convex: sucker and palpi black: feelers tawny: abdomen oval, brassy on each side, a little longer than the chest: oviduct short, ferruginous: legs bright tawney; a pitchy spot on each thigh; claws black; fore feet pale yellow, pitchy towards the tips: wings whitish; wing-ribs and veins pale yellow; longitudinal veins straight, with the exception of the fifth, which is much curved upward after its junction with the lower cross vein, and is united with the fourth

before the tip of the wing; lower cross veins straight, oblique, parted by more than twice its length from the middle cross vein, by more than thrice its length from the tip of the wing, and by half its length from the hind border; poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. North Bengal. From Miss Campbell's collection.

*ULIDIA smaragdi*, n. s., fem. *Viridis, capite nigro, abdomine cyaneo-purpureo, antennis ferrugineis, palpis pedibusque nigris, genubus tibusque posterioribus ferrugineis, tarsis posterioribus fulvis apice piceis, tarsis anticis basi albis, alis albidis.*

Head and chest beset with a few black bristles: head black; sides of the face without bristles; epistoma not prominent: eyes bright red, convex; all the facets very small: sucker pitchy, clothed with tawny hairs; palpi black, beset with black bristles: feelers ferruginous, shorter than the face; third joint slightly tapering from the base to the tip, more than twice the length of the second; bristle black, slender, bare, pale yellow towards the base, about twice the length of the third joint: chest green, not shining: abdomen bluish-purple, shining, oval, a little longer than the chest; penultimate segment bright green: oviduct pitchy, short: legs black; fore feet white at the base; four hinder knees and shanks ferruginous; four hinder feet tawny with pitchy tips: wings whitish; wing-ribs and veins tawny; lower cross vein with two very slight curves (the lower outward, the upper inward) parted by more than twice its length from the middle cross-vein, by more than thrice its length from the tip of the wing, and by less than half its length from the hind border; fifth longitudinal vein much curved upward after the junction of the lower cross-vein, approaching very near the fourth at the tip of the wing; scales small, white; poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. ———? From Mr. Children's collection.

*ULIDIA stigma*, Wied. *Auss. Zweif.* ii. 665, 1. *Musca stigma*, *Fabr. Suppl.* 563, 72. *Syst. Antl.* 303, 96. *Dacus obtusus*, *Fabr. Syst. Antl.* 278, 30.

a. ———?

### DIOPSIS, *Linnaeus*.

*DIOPSIS pallida*, *Westw. Linn. Trans.* xvii. 296, 3, *pl.* 9, *f.* 3.

a. ———?

*DIOPSIS indica*, *Westw. Linn. Trans.* xvii. 299, 7, *pl.* 9, *f.* 6. *D. Ichneumonaea*, *Donov. Ins. Ind. pl. ult. Rees' Encycl.* xi. *pl.* 2. *f.* 13.

- a.* East India. From Archdeacon Clerk's collection.
- b.* ———? From Mr. Children's collection.

*DIOPSIS assimilis*, *Westw. Linn. Trans.* xvii. 300, 8, *pl.* 9, *f.* 7, 8.

- a.* ———? From Mr. Children's collection.
- b.* ———?

*DIOPSIS fasciata*, *G. R. Gray, Griff. Trans. Anim. Kingd.* 34, 773, *pl.* 125, *f.* 3. *Westw. Linn. Trans.* xvii. 304, 13, *pl.* 9, *f.* 12, 13,

- a.* Sierra Leone. Presented by the Rev. D. F. Morgan.
- b.* ———?

*DIOPSIS thoracica*, *Westw. Linn. Trans.* xvii. 306, 16, *pl.* 9, *f.* 15.

*D. Servillei*, *Macq. Dipt. Exot.* ii. 3, 238, 1, *pl.* 32, *f.* 2.

- a.* Sierra Leone. Presented by the Rev. D. F. Morgan.
- b.* West Africa. From Mr. Argent's collection.

*DIOPSIS Dalmanni*, *Weid. Auss. Zweif.* ii, 560, 4, *pl.* 10a, *f.* 4.

*Westw. Linn. Trans.* xvii. 309, 19, *pl.* 19, *f.* 17.

- a.* Java. From Mr. Westwood's collection.

*DIOPSIS Sykesii*, *G. R. Gray, Westw. Linn. Trans.* xvii. 310, 20, *pl.* 9, *f.* 18, 19.

- a.* East India. From Mr. Birch's collection.

*DIOPSIS subnotata*, *Westw. Orient. Ent. pl.* 18, *f.* 2.

- a.* Philippine Islands. From Mr. Wood's collection.

*DIOPSIS Trentepohlii*, *Westermann, Westw. Linn. Trans.* xvii. 546, 25, *pl.* 28, *f.* 6.

- a.* ———? Presented by the Rev. D. F. Morgan.

*DIOPSIS Hearsceanus*, *Westw. Proc. Ent. Soc.\**

- a.* North Bengal. From Miss Campbell's collection.

#### PLATYSTOMA, Latreille.

*PLATYSTOMA umbrarum*, *Meig. Dipt.* v. 391, 1, *pl.* 53, *f.* 22. *Macq. Hist. Nat. Dipt.* ii. 444, 1. *Musca umbrarum*, *Fabr. Sp. Ins.* ii. 450, 80. *Ent. Syst.* iv. 350, 157. *M. fulviventris*, *Gmel. Ed. Syst. Nat.* v. 2862, 298. *Schränk, Ins. Austr.* 953. *Dictya umbrarum*, *Fabr. Syst. Antl.* 325, 1. *Hesquillia lugubris*, *Derv. Essai. Myod.* 709, 1.

- a.* France.

*PLATYSTOMA seminationis*. *Latr. Gen. Crust.* iv. 354. *Cons. Gen.* 444. *Meig. Dipt.* v. 392, 2. *Macq. Hist. Nat. Dipt.* ii. 444, 3. *Musca seminationis*, *Linn. Faun. Suec.* 1874. *Fabr. Sp. Ins.* ii. 452, 90. *Ent. Syst.* iv. 355, 174. *Gmel. Ed. Syst. Nat.* i. 5, 2857, 246. *M. nævosus*, *Harr. Ex.* 75, pl. 21, f. 10. *Dictya seminationis*, *Fabr. Syst. Antl.* 329, 16. *Trupanea seminationis*, *Schrank, Faun. Boic.* iii. 2516. *Hesyquillia seminationis*, *Desv. Ess. Myod.* 709, 2.

a. England.

b. Aix-la-Chapelle. Presented by F. Walker, Esq.

c. France.

*PLATYSTOMA stictica*, *Wied. Auss. Zweif.* ii. 569, 3. *Dictya stictica*, *Fabr. Syst. Antl.* 327, 9.

a. Brazil. From Mrs. Noel's collection.

b. ———? From Mr. Children's collection.

*PLATYSTOMA maculipennis*, *Guérin, Voy. de la Coquille*, 2, 2. *Macq. Hist. Nat. Dipt.* ii. 444, 3.

a. Australia. From the Rev. J. Wenham's collection.

*PLATYSTOMA australis*, n. s. *Rufo-fusca, capite flavo vittis duabus fuscis ornato, thorace vittis quatuor canis duabusque nigris ornato, abdomine nigro fusco, palpis nigris, antennis ferrugineis, pedibus piceis, tibiis fulvis, tarsis nigris basi albis, alis limbulis fusco maculatis fuscatis et vittatis.*

Head pale yellow, adorned with broad deep brown stripes between the eyelets and the base of the feelers, and having a short brown stripe on each side towards the epistoma: eyes dark red; fore part rather flat, its facets a little larger than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers ferruginous, about half the length of the face, their grooves pitchy; third joint nearly linear, conical at the tip, about four times the length of the second; bristle black, bare, tawny towards the base, near thrice the length of the third joint: chest pale reddish brown, adorned with two regular black stripes, and with four irregular hoary stripes: abdomen obconical, dark brown or black, dull, clothed with white hairs, not longer than the chest, hind borders of the segments hoary: legs pitchy; shanks dark tawny with pitchy tips; feet black, white at the base: wings colourless, adorned with many small brown spots, which are chiefly along the fore border and the hind border; a blackish-brown band extends across the middle of the wing and becomes narrower and paler as it approaches the hind border; near the tip there is another brown band of equal breadth, and a little beyond the latter a brown irregular stripe runs



along the fore border to the tip of the wing; wing-ribs and veins black; lower cross-vein nearly straight: scales dingy white; poisers tawny. Length of the body 4 lines; of the wings 9 lines.

a. New Holland. From Mr. Lambert's collection.

### NOTACANTHINA, Macq.

NOTACANTHINA magnifica, n. s., mas. et fem. *Fulva, capite ferrugineo, abdomine cyaneo-purpureo, palpis fulvis apice nigris, antennis nigris basi ferrugineis, pedibus nigris, tarsis fulvis, alis subnigris maculis limpidis variis confertim ornatis.*

Head ferruginous, very prominent in front; sides of the face without bristles; epistoma prominent. eyes pale red, with a brassy tinge; fore part slightly convex, its facets a little larger than those elsewhere: sucker ferruginous, large, clothed with tawny hairs; palpi tawny with black tips, beset with black spines: feelers black, shorter than the face; first and second joints ferruginous; third conical, not longer than the second: bristle feathered to the tip with short hairs, much more than four times the length of the third joint: chest and breast tawny, the former clothed with short tawny hairs: scutcheon armed with spines, which terminate in bristles: abdomen dark purple mingled with blue, sometimes almost black, shorter but hardly broader than the chest, its length hardly exceeding its breadth, clothed with short black hairs, and towards the base with short tawny hairs: legs black; feet tawny, black towards the tips; claws black: wings blackish, somewhat paler along the hind borders, adorned with numerous colourless dots, various in shape and size, and having a tendency to form bands towards the tips of the wings; wing-ribs ferruginous; veins black; scales short, tawny; poisers black. Length of the body 5—7 lines; of the wings 12—16 lines.

a. Congo. Presented by Sir J. Richardson.

### Group Dichromyia, Desv. Ess. Myod. 707.

#### PHASIAMYA, n. g.

Body broad, thick: head very large and with a cross-ridge between the face and the epistoma; peristoma large: feelers much shorter than the face; bristle feathered on both sides with long hairs: scutcheon large, prominent, semicircular: wings convex along the fore border, especially near the base; the three basal cross-veins at two-fifths of the length of the wing from the base, the lower one

nearly perpendicular, forming a very slight inward angle with the middle one, a little shorter than the upper one, which is oblique, and forms rather more than a right angle with the middle one; the latter is oblique and very short; lower cross-vein much covered outward, parted by more than its length from the middle cross-vein, by much more than its length from the tip of the wing, and by about one-fourth of its length from the hind border; middle cross-vein short, straight, slightly oblique; scales very small.

*PHASIAMYA* *metallica*, n. s., fem. *Æneo-viridis, abdominis basi cyaneo cupreoque vario, palpis antennisque fulvis, his basi nigris, pedibus fulvis, femoribus piceis, tarsis flavis, alis subcinereis costa fulvis apice subfuscis vittaque limpida ornatis.*

Body brassy-green, thickly clothed with very short black hairs: head tawny, beset with a few black bristles, black about the region of the eyelets and along the sides of the face, which are without bristles; epistoma prominent: eyes red; fore part slightly convex; its facets larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, partly black and clothed with very short black hairs at the base; third joint linear, rounded at the tip, more than twice the length of the second; bristle slender, more than twice the length of the third joint: abdomen obconical, a little longer than the chest, tinged with blue and copper colour towards the base: legs tawny, thickly clothed with short black hairs; thighs, except their tips and hips, pitchy; feet pale yellow, with pitchy tips; claws black; foot-cushions tawny: wings slightly gray, tawny along the fore border, pale brown towards the tips, when there is a colourless band just beyond the lower cross-vein, on the lower part of which the brown tinge is darker than elsewhere; wing-ribs and veins tawny, the latter pitchy in some parts; primary longitudinal veins beset with short black bristles; poisers and scales tawny. Length of the body 3 lines; of the wings 5 lines.

a.———?

#### *ROPALOMERA? Wiedemann.*

*ROPALOMERA? rufipes*, n. s., fem. *Nigra, capite nigro-cyaneo, abdomine clavato, antennis fulvis, pedibus rufis, tarsis piceis, femoribus posticis crassis piceo cinctis subtus serratis, alis subfuscis.*

Body slender: head and chest beset with a few black bristles: head bluish black, shining, adorned behind with a spot of white down and with a stripe of the same along each eye, clothed beneath

with pale hairs; sides of the face without bristles; epistoma not prominent: eyes red; fore part slightly convex, its facets larger than those elsewhere: sucker pitchy, clothed with pale tawny hairs; palpi tawny: feelers tawny, darker at the base, shorter than the face; third joint nearly round, longer than the second; bristle pale tawny, slender, bare, about four times the length of the third joint: chest black, dull, finely punctured, clothed (especially on each side) with short tawny hairs; scutcheon small, armed with two bristles: abdomen twice the length of the chest, linear and narrow for half the length, broader and spindle-shaped from thence to the tip, clothed on each side with pale yellow hairs: legs red, clothed with very short pale yellow hairs; hips and feet pitchy; claws black; hind thighs thick, spindle-shaped, adorned with a pitchy band, armed beneath with a double row of short black spines, furrowed for the reception of the hind shanks, which are slightly curved: wings rather narrow, slightly tinged with brown; wing-ribs tawny; veins pitchy, tawny at the base; fourth longitudinal vein forming two very obtuse angles, the one upward at the junction with the middle cross-vein, the other downward at the junction with the lower cross-vein; sixth longitudinal vein abruptly proceeding to the hind border after its junction with the lower basal cross-vein; middle cross-vein very short; lower cross-vein straight, nearly upright, parted by more than thrice its length from the middle cross-vein, by more than four times its length from the end of the fourth longitudinal vein, and by more than half its length from the end of the fifth longitudinal vein; poisers bright tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

a. ——— ?

### PIOPHILA, *Fallen.*

PIOPHILA Casei, *Fall. Heterom.* 9, 1. *Meig. Dipt.* v. 395, 1, *pl.* 54, *f.* 4. *Macq. Hist. Nat. Dipt.* ii. 541, 1. *Musca Casei*, *Linn. Faun. Succ.* 1850,  $\beta$ . *M. putris*, var. *Linn. Syst. Nat.* ii. 993. *Gmel. Ed. Syst. Nat.* v. 2849, 89. *Berk. Syn.* 1, 165. *Stew. El.* ii. 260. *Turt.* iii. 610. *Tyrophaga Casei*, *Kirby and Spence, Intr. Ent.* i. 226, iv. 9. *Curt. Brit. Ent.* iii. 120. The cheese-fly, *Bingley, Anim. Biog.* iii. 318.

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

d. Interior of South Africa. Presented by the Earl of Derby.

e. ——— ? From Mr. Children's collection

*PIOPHILA atrata*, *Meig. Dipt.* v. 396, 2. *Macq. Hist. Nat. Dipt.* ii. 542, 2. *Musca atrata*, *Fabr. Ent. Syst.* iv. 333, 89. *Te-phritis atrata*, *Fabr. Syst. Antl.* 323, 33. *Piophila vulgaris*, *Fall. Heterom.* 9, 2.

- a. England. Presented by F. Walker, Esq.
- b. England.
- c. France.
- d. Galapagos. Presented by C. Darwin, Esq.
- e. Tangier. From Mr. Fraser's collection.

*PIOPHILA nigrimana*, *Meig. Dipt.* v. 396, 3, *pl.* 54, *f.* 5. *Macq. Hist. Nat. Dipt.* ii. 542, 3. •

- a. England. •

*PIOPHILA nigriceps*, *Meig. Dipt.* v. 397, 5.

- a. England.
- b. Alten. Presented by F. Walker, Esq.
- c. Hammerfest. Presented by F. Walker, Esq.
- d. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*PIOPHILA luteata*, *Hal. Ent. Mag.* i. 169. *P. petasionis*, *Dufour, Ann. Sci. Nat. 3me série*, i. 365, *pl.* 15, 16.

- a. England. Presented by F. Walker, Esq.
- b. England.

#### HOMALURA, *Meigen*.

*HOMALURA tarsata*, *Megerle, Meig. Dipt.* v. 399, 1, *pl.* 54, *f.* 6—9. *Macq. Hist. Nat. Dipt.* ii. 586, 1.

- a. Aix-la-chapelle. Presented by F. Walker, Esq.

#### THYREOPHORA, *Latreille*.

*THYREOPHORA cynophila*, *Latr. Gen. Crust.* iv. 358. *Cons. Gén.* 444. *Meig. Dipt.* v. 401, 1, *pl.* 54, *f.* 10—15. *Desv. Essai Myod.* 622, 1. *Macq. Hist. Nat. Dipt.* ii. 497, 1. *Musca cynophila*, *Panz. Faun. Ins. Germ.* 24, 22.

- a. France.

## ACTORA, Meigen.

ACTORA æstuum, Meig. *Dipt.* v. 403, 1, pl. 54, f. 16—20. Macq.  
*Hist. Nat. Dipt.* ii. 500, 1. *Helcomyza ustulata*, Curt. *Brit.*  
*Ent.* 68.

a. England.

ACTORA extrema, n. s., mas. *Ferruginea*, thorace cinereo, palpis  
*fulvis*, antennis pedibusque ferrugineis, alis subcinereis.

Body ferruginous, thickly clothed with black hairs: head beset with a few black bristles; a stout bristle on each side of the face at the base; epistoma not prominent: eyes red, convex; all the facets very small: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers ferruginous; third joint nearly round, a little longer than the first and the second joints; bristle black, downy, long, nearly thrice the length of the feeler: chest and breast gray; scutcheon and fore part of the breast ferruginous: legs ferruginous, thickly clothed with black hairs; foot-cushions yellow; claws black: wings pale gray; wing-ribs tawny; veins black, tawny towards the base; fore border vein tawny, armed with black spines; lower cross-vein straight, perpendicular, parted by more than twice its length from the middle cross-vein, and by near thrice its length from the tip of the wing; poisers yellow. Length of the body 5 lines; of the wings 12 lines.

a. Finmark. Presented by F. Walker, Esq.

ACTORA ferruginea, n. s., fem. *Ferruginea*, thorace trivittato, palpis  
*fulvis*, antennis pedibusque ferrugineis, tarsis piceis, alis sub-  
*fulvis*.

Body ferruginous, thickly clothed with black hairs, partly adorned with a hoary bloom: sides of the face without bristles, excepting the stout black one on each at the base; epistoma not prominent: eyes red, tinged with green on the disk; the facets of moderate size: sucker and palpi tawny; sucker clothed with tawny hairs; palpi beset with black bristles: feelers bright ferruginous, much shorter than the face; third joint rounded, downy, forming two-thirds of a circle, a little longer than the second, which is clothed with short black hairs; bristle black, slender, downy, more than six times the length of the third joint; its second joint long, pitchy at the base: chest adorned with three slightly interrupted ferruginous stripes, the middle one very slender: abdomen very slightly tapering from the base to the tip, a little longer and narrower than the chest: legs ferruginous, very thickly clothed with black

hairs; feet pitchy, excepting the base; claws black; foot-cushions tawny: wings slightly tawny; wing-ribs tawny; veins pitchy, tawny towards the base; longitudinal veins straight; lower cross-vein a little oblique, very slightly curved outward, parted by much more than twice its length from the middle cross-vein and from the tip of the wing, and by near half its length from the hind border; poisers bright tawny. Length of the body 4 lines; of the wings 8 lines.

*a.* Nova Scotia. From Lieut. Redman's collection.

### LUCINA, *Meigen*.

LUCINA fasciata, *Meig. Dipt.* vi. 3, 1, *pl.* 55, *f.* 6—8. *Macq. Hist. Nat. Dipt.* ii. 409, 1.

*a.* England. Presented by F. Walker, Esq.

### CAMAROTA, *Meigen*.

CAMAROTA flavitarsis, *Meig. Dipt.* vi. 7, 1, *pl.* 55, *f.* 18—21. *Macq. Hist. Nat. Dipt.* ii. 560, 1.

*a.* Aix-la-Chapelle. Presented by F. Walker, Esq.

CAMAROTA aurifrons, *Haliday, Ent. Mag.* i. 172.

*a.* England. Presented by F. Walker, Esq.

### SCIOMYZA, *Fallen*.

*Div. A. Meig. Dipt.* v. 10.

SCIOMYZA albocostata, *Fall. Sciom.* 12, 3. *Meig. Dipt.* vi. 12, 5. *Macq. Hist. Nat. Dipt.* ii. 405, 4, *pl.* 18, *f.* 13. *Zett. Ins. Lapp.* 738, 5. *Dipt. Scand.* v. 2098, 9.

*a.* England. Presented by F. Walker, Esq.

*b.* France.

SCIOMYZA obtusa, *Fall. Sciom.* 13, 4. *Meig. Dipt.* vi. 12, 6.? *Zett. Ins. Lapp.* 737, 4. *Dipt. Scand.* v. 2999, 10.

*a.* England. Presented by F. Walker, Esq.

*b.* France.

*Div. B. Meig. Dipt.* v. 15.

SCIOMYZA fuscipennis, *Meig. Dipt.* vi. 16, 15.

*a.* England. Presented by F. Walker, Esq.

*b.* ———? From Mr. Children's collection.

*SCIOMYZA cinerella*, *Fall. Sciom.* 14, 8. *Meig. Dipt.* vi. 16, 16.  
*Macq. Hist. Nat. Dipt.* ii. 407, 11. *Zett. Ins. Lapp.* 739, 10.  
*Dipt. Scand.* v. 2118, 28.

- a. England. Presented by F. Walker, Esq.  
 b. France.

*SCIOMYZA ventralis*, *Fall. Sciom.* 14, 9. *Meig. Dipt.* vi. 21, 29.  
 a. England. Presented by F. Walker, Esq.

*SCIOMYZA Schönherri*, *Fall. Sciom. Suppl.* ii. 13, 13. *Zett. Ins. Lapp.* 738, 8. *Dipt. Scand.* v. 2107, 16. *S. monilis*, *Meig. Dipt.* vi. 17, 18. *Macq. Hist. Nat. Dipt.* ii. 407, 12. *Pherbelia vernalis*? *Desv. Essai Myod.* 696, 1.

- a. England.

*SCIOMYZA nana*, *Fall. Sciom.* 15, 12. *Meig. Dipt.* vi. 18, 19.  
*Macq. Hist. Nat. Dipt.* ii. 408, 14. *Zett. Dipt. Scand.* v. 2109, 18.

- a. England. Presented by F. Walker, Esq.

*SCIOMYZA fulvipennis*, *Walker, Linn. Trans.* xvii. 359, 76.

- a. Port Famine. Presented by the Entomological Club.

*SCIOMYZA bicolor*, *Walker, Linn. Trans.* xvii. 358, 75.

- a. Port Famine. Presented by the Entomological Club.

*SCIOMYZA nigripalpus*, *Barnston's MSS.* *Fulva, abdominis apice flavo, palpis nigris, antennis pedibusque fulvis, tarsis obscurioribus, alis subfulvis.*

Body tawny, beset with black hairs and bristles: head paler beneath; sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets very small: sucker dark tawny, clothed with tawny hairs; palpi black, beset with black bristles: feelers bright tawny, as long as the face; third joint flat above, very slightly convex beneath, rounded at the tip, much more than twice the length of the second joint: abdomen slightly tapering from the base to the tip, yellow above towards the tip, narrower, but hardly longer than the chest: legs tawny, clothed with very short black hairs, beset with a few black bristles; feet darker; claws black; foot-cushions pale tawny: wings slightly tawny; wing-ribs and veins tawny; lower cross-vein straight, slightly oblique, parted by more than twice its length from the middle cross-vein, by about thrice its length from the tip of the wing, and by nearly half its

length from the hind border ; poisers tawny. Length of the body 2 lines ; of the wings  $4\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*SCIOMYZA reversa*, n. s., fem. *Fulva, crassa, capite nigro-cinereo, palpis antennis pedibusque fulvis, tarsis piceis, alis cinereis ad costam fulvis.*

Body thick, bright tawny : head and chest beset with black bristles : head black, tinged with gray ; two stout bristles on each side of the face at the base ; a row of short bristles behind the eyes ; sides of the peristoma very bristly ; epistoma not prominent : eyes red ; fore part nearly flat, its facets a little larger than those elsewhere : sucker pitchy, clothed with tawny hairs ; palpi dark tawny, beset with black bristles : feelers bright tawny, as long as the face ; third joint narrow, linear, about four times the length of the second, rounded at the tip ; bristle pitchy, very much longer than the third joint, feathered on both sides to the tip with long hairs : abdomen obconical, clothed with black hairs, equal to the chest in length and breadth : legs stout, tawny, beset with black hairs and bristles ; feet pitchy ; claws black : wings gray, tawny along the fore border ; wing-ribs and veins tawny ; longitudinal veins straight ; middle cross-vein straight, slightly oblique ; lower cross-vein oblique, with a very slight outward curve at each end and a larger inward curve in the middle, parted by a little more than its length from the middle cross-vein, by very much more than its length from the end of the fourth longitudinal vein, which is far below the tip of the wing, and by a little more than half its length from the end of the fifth longitudinal vein ; poisers tawny. Length of the body  $2\frac{1}{2}$  lines ; of the wings 5 lines.

a. New Holland Presented by J. Hunter, Esq.

*SCIOMYZA cinctipes*, n. s., fem. *Ferruginea, crassa, capite abdominisque lateribus posticis nigris, palpis nigris, antennis piceis, pedibus fulvis, genubus tibiis tarsisque apice pedibusque anticis nigris, alis subcinereis ad costam fulvis.*

Body thick, ferruginous : head and chest beset with a few black bristles : head black, with a row of short bristles behind each eye ; face shining, its sides without bristles ; epistoma not prominent : eyes red, convex ; all the facets very small : sucker pitchy, clothed with tawny hairs ; palpi black, beset with black bristles : feelers pitchy, much shorter than the face ; third joint conical, longer than the second ; bristle slender, downy, about thrice the length of the



third joint: abdomen obconical, not longer nor broader than the chest, clothed with black hairs, black on each side towards the tip: legs tawny, clothed with short black hairs; knees, tips of shanks and feet black; foot-cushions tawny; fore legs black, with tawny hips: wings slightly gray, tawny along the fore borders; wing-ribs and veins tawny; longitudinal veins straight, the fifth ceasing immediately after its junction with the lower cross-vein; middle cross-vein straight, slightly oblique; lower cross-vein oblique, hardly curved outward, parted by much more than twice its length from the middle cross-vein, by four times its length from the end of the fourth longitudinal vein, and by half its length from the hind border; poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. New Holland. Presented by J. Hunter, Esq.

SCIOMYZA (n. g.?) *obliqua*, n. s. *Ferruginea, crassa, capite palpis pedibusque fulvis, antennis ferrugineis, alis fuscis costa basi fulva.*

Body thick, ferruginous, clothed with short tawny hairs: head tawny; sides of the face without bristles; epistoma not prominent: eyes pitchy, small, convex; all the facets very small: sucker tawny, clothed with pale hairs; palpi tawny, beset with black bristles: feelers ferruginous, shorter than the face; third joint forming two-thirds of a circle, a little longer than the second; bristle black, bare, slender, very much larger than the third joint: abdomen obconical, not longer than the chest: legs tawny, clothed with short yellow hairs; claws black: wings brown, tawny along the fore border for half the length from the base; wing-ribs and veins ferruginous; fourth longitudinal vein forming a very obtuse angle at its junction with the lower cross-vein, slender and slightly curved from thence to its tip, and apparently a continuation of the lower cross-vein; middle cross-vein straight, slightly oblique; lower cross-vein long, very oblique, nearly straight, parallel to the hind border of the wing, parted by hardly more than its length from the middle cross-vein, by a little less than its length from the end of the fourth longitudinal vein, and by less than half its length from the end of the fifth longitudinal vein; poisers pale yellow. Length of the body  $1\frac{3}{4}$  line; of the wings 3 lines.

a. New Holland Presented by the Haslar Hospital.

DACUS, *Fabr.*

DACUS Oleæ, *Meig. Dipt.* v. 22, 1, *pl.* 56, *f.* 11, 13. *Macq. Hist. Nat. Dipt.* 11, 451, 1. *Rossi Faun. Etrusc.* 2, 349, 1538. *Musca Oleæ, Fabr. Ent. Syst.* iv. 349, 152. *Oscinis Oleæ, Fabr. Syst. Anth.* 215, 3. *Coq. Illust. pl.* 24, *f.* 16. *Latr. Gen. Crust.* iv. 351. *Brachyopa Oleæ, Meig. Syst. Besch.* iii. 264, 6.

a. France.

b. Italy. From Mr. Birch's collection.

Group Senopterina, *Macq.*

DACUS brevipes, *Weid. Auss. Zweif.* ii. 513, 1. Senopterina brevipes, *Macq. Hist. Nat. Dipt.* ii. 454, 1.

a. ——— ?

DACUS bicolor, n. s., mas. et fem. *Fulvus, capite ferrugineo, abdomine cyaneo-purpureo basi fulvo, palpis ferrugineis, antennis pedibusque fulvis, alis fulvis, apice fuscis, marginibus posticis cinereis.*

Head and chest tawny, beset with a few black bristles: head ferruginous above and in front; sides of the face without bristles; epistoma not prominent: eyes black; fore part flat, its facets much larger than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi ferruginous, beset with black bristles: peristoma large; furrows of the face tinged with white; feelers tawny, a little shorter than the face; third joint about twice the length of the second, tapering from the base to the tip, which is conical; bristle black, very slender, tawny at the base, near which it has a few very short hairs, about thrice the length of the third joint: chest clothed on each side with some very short pale tawny hairs: abdomen bluish-purple, spindle-shaped, tawny at the base, a little narrower and longer than the chest: oviduct short, pitchy towards the tip: legs tawny, clothed with very short pale yellow hairs; feet darker towards the tips; claws black; foot-cushions pale dull yellow; thighs armed beneath towards the tips with a double row of short black spines; wings tawny, gray along the hind borders; a large dark brown spot near the tip of each fore border; wing-ribs and veins tawny, the latter pitchy in the brown parts of the wing; longitudinal veins nearly straight, middle cross-vein straight, upright; lower cross-vein almost straight, nearly upright, parted by less than thrice its length from the middle cross-vein by much more than thrice its length from the end of the fourth longitudinal vein, and by less than half its length from the end of the fifth longitudinal vein; poisers pale yellow,

tawny at the base; scales white, of moderate size, fringed with white hairs, the lower extending a little beyond the upper. Length of the body  $3\frac{1}{2}$ —4 lines; of the wings 7 lines.

a. ———?

*DACUS basalis*, n. s. *Cyaneo viridis, capite fulvo supra subtusque nigro, oculorum marginibus facieque albis, abdomine basi subtus fulvo, palpis fulvis, antennis pedibusque ferrugineis, alis subcinereis, costa nervisque transversis fusco nebulosis.*

Body bluish-green: head tawny, black beneath and on the crown; a white stripe along each eye; face white, its sides without bristles; epistoma prominent: eyes pitchy; fore part flat, its facets much larger than those elsewhere: sucker black, clothed with tawny hairs; palpi tawny, rather large, beset with black bristles: feelers ferruginous, full as long as the face; third joint linear, slender, pitchy towards the tip, more than four times the length of the second; bristle slender, black, bare, tawny towards the base, much longer than the third joint: chest covered with whitish bloom: abdomen linear, tawny towards the base beneath, much longer and narrower than the chest: legs ferruginous, clothed with very short black hairs; feet pitchy towards the tips; claws black; foot-cushions tawny: wings slightly gray, brown along the fore border from near one-third of the length to the tip; middle and lower cross-veins clouded with brown, which has the darkest hue on the former; wing-ribs ferruginous; veins pitchy, ferruginous towards the base; longitudinal veins nearly straight; middle cross-vein very oblique; lower cross-vein nearly upright, parted by little less than its length from the middle cross-vein, by much more than its length from the tip of the wing, and by little more than one-fourth of its length from the hind border; poisers pale tawny. Length of the body  $2\frac{3}{4}$  lines; of the wings 5 lines.

a. Port Essington. From Mr. Gould's collection.

b. ———?

*DACUS trivittatus*, n. s., mas. *Piceus, capite flavo vitta picea ornato, thorace flavo trivittato, abdominis apice ferrugineo, palpis fuscis, antennis fulvis articulo 3<sup>o</sup> supra piceo, pedibus piceis tibiis tarsisque posticis femoribusque fulvis, alis limpidis ad costam fuscis.*

Body pitchy, clothed with very short yellow hairs: head and chest beset with a few black bristles: head yellow; a broad pitchy stripe on the crown; furrows of the face black, its sides without bristles; epistoma slightly prominent: eyes pitchy; fore part flat, its facets much larger than those elsewhere: sucker pitchy, clothed

with tawny hairs: palpi pale brown: feelers tawny, as long as the face; third joint pitchy above, nearly four times the length of the second, very slightly tapering from the base to the tip, which is somewhat obliquely truncated; bristle pitchy, very slender, downy till near the tip, tawny at the base, less than twice the length of the third joint: chest adorned with three very broad yellow stripes: abdomen spindle-shaped, ferruginous towards the tip, a little narrower but not longer than the chest: legs pitchy, clothed with very short yellow hairs, beset with black bristles; hips, thighs, hind shanks and hind feet tawny; claws black: wings colourless, brown along the fore border; wing-ribs and veins tawny; upper basal cross-vein straight; lower basal cross-vein oblique, a little nearer the base of the wing than the other; middle cross-vein straight, slightly oblique, lower cross-vein nearly upright, straight, excepting a very slight outward curve along half the length from the base, parted by much more than its length from the middle cross-vein, by full twice its length from the tip of the wing, and by near half its length from the hind border; poisers ferruginous. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

*a.* Philippine Islands. From Mr. Wood's collection.

*DACUS ferrugineus*, *Fabr. Syst. Antl.* 274, 5. *Weid. Auss. Zweif.* ii. 516, 5. *Musca ferruginea*, *Fabr. Ent. Syst.* iv. 342, 127.

*a.* ——— ?

*DASYNEURA*, *Saunders, Trans. Ent. Soc.* iii. 60.

*DASYNEURA caudata*? *Dacus caudatus*? *Fabr. Syst. Antl.* 276, 16. *Wied. Auss. Zweif.* ii. 518, 8. *Ferruginea, capite fulvo, facie flava maculis duabus nigris ornata, thorace trivittato flavo bimaculato, lateribus flavo vittatis, pectoris maculis quatuor scutelloque flavis, abdomine flavo piceoque vario, palpis flavis, antennis pedibusque fulvis his ferrugineo variis, alis limpidis costa vitta postica basi apiceque fuscis.*

*Fem.*—Body ferruginous, clothed with very short pale hairs: head and chest beset with a few black bristles: head tawny; face yellow, adorned in front with two black spots, its sides without bristles; epistoma slightly prominent; eyes pitchy; fore part nearly flat, its facets larger than those elsewhere: sucker and palpi clothed with short pale hairs; sucker ferruginous; palpi yellow, stout, curved: feelers tawny, full as long as the face; third joint slender, straight beneath, very slightly concave above, rounded and pitchy at the tip,

much more than twice the length of the second; bristle black, bare, very slender, tawny at the base, a little more than twice the length of the third joint; chest and breast slightly covered with whitish bloom, which on the former is interrupted by three stripes: chest adorned with a yellow spot on each shoulder and with a yellow stripe on each side; breast with two yellow spots on each side; scutcheon yellow, armed on the hind border with two bristles: abdomen elliptical, slightly petiolated, a little broader but hardly longer than the chest, adorned with a yellow band on the hind border of the second segment, with a pitchy band on the fore border of the third segment, and with a pitchy stripe towards the tip: oviduct forming a flat tapering tube, which is less than half the length of the preceding part: legs clothed with very short pale hairs; hips and hind shanks ferruginous; four hinder thighs pale tawny, with ferruginous tips: middle shanks tawny; feet ferruginous, tawny at the base; claws black; fore legs tawny, their shanks and feet ferruginous, the latter tawny towards the base: wings colourless, brown a little below the fore border for near one-third of the length from the base, and along the fore border from thence to the tip, where the brown hue widens into a darker spot; a brown stripe from the base of the wing accompanies the sixth longitudinal vein to the hind border; lower cross-vein clouded with brown; wing-ribs tawny; veins pitchy, tawny towards the base; longitudinal veins slightly waving; lowest basal cross-vein forming an angle on approaching the sixth longitudinal vein, and accompanying it along half its course from thence to the tip before they are united; middle cross-vein oblique, very slightly curved inward; lower cross-vein nearly upright, with two very indistinct curves, the lower inward, the upper outward, parted by full its length from the middle cross-vein, by more than its length from the tip of the wing, and by less than one-fourth of its length from the hind border; poisers yellow. Length of the body 4 lines; of the wings 7 lines.

Var.  $\beta$ . Abdomen with no yellow band, pitchy at the base, and having a pitchy band on each segment from the second to the fourth.

a. North Bengal. From Miss Campbell's collection.

b. ———?

DASYNEURA Tau, n. s., mas. *Fulva, flavo nigroque varia, palpis antennis pedibusque fulvis, tarsis posterioribus femoribusque flavis, alis fusco bivittatis.*

Body and legs clothed with short pale hairs: head and chest beset with a few black bristles: head yellow, adorned with a pitchy

spot above the base of the feelers, and with two black spots on the face; sides of the latter without bristles; epistoma not prominent: eyes red; fore part slightly convex; its facets larger than those elsewhere; sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, full as long as the face; third joint slender, linear, rounded and darker at the tip, more than four times the length of the second; bristle bare, slender, black, tawny towards the base, nearly twice the length of the third joint: chest and abdomen elliptical, of equal length and breadth: chest and breast tawny, an interrupted black stripe on each side of the former; a short black band on each side of the latter: a black spot on each side of the hind scutcheon: abdomen yellow, tawny on the disk, adorned with a short black stripe on each side near the base, and with two black spots on each side near the tip; it has also two black bands, the first is indistinct and interrupted on each side, from the latter a black stripe proceeds almost to the tip of the abdomen: hips tawny; thighs yellow, tawny towards the tips: shanks dark tawny; four hinder feet pale yellow, their tips and the fore feet tawny; claws black: wings colourless; a brown stripe proceeds along one-third of the length from the base a little below the fore border, which it afterwards accompanies to the tip of the wing and there widens; another brown stripe accompanies the sixth longitudinal vein to the hind border; wing-ribs and veins tawny; longitudinal veins slightly waving, the fifth forming a very slight angle at its junction with the lower cross-vein; upper basal cross-vein nearly upright, very slightly curved outward; lower basal cross-vein much nearer the base of the wing, forming a right angle on approaching the sixth longitudinal vein, which it thence accompanies nearly to the hind border; middle cross-vein slightly oblique, straight till near the tip, where it is curved outward; lower cross-vein slightly oblique, straight, with the exception of a very slight outward curve near its tip, parted by its length from the middle cross-vein, by a little more than its length from the tip of the wing, and by one-fourth of its length from the hind border; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. China. Presented by G. T. Lay, Esq.

b. ——— ?

*DASYNEURA zonata*, Saunders, *Trans. Ent. Soc.* iii. 61, pl. 5, f. 3.

A variety of this species much resembles the preceding, but differs in the following characters. *Fem.*—Head covered with a slight hoary bloom, adorned with three pitchy spots on each side of the crown: fore part of the eyes flat, its facets much larger than those elsewhere: third joint of the feelers more than twice the length

of the second: chest and breast gray; fore part of the latter tawny; shoulders, a stripe on each side of the chest, scutcheon, and an oblique band on each side of the breast yellow: abdomen tawny, nearly oval, broader but hardly longer than the chest, adorned with two pitchy bands, which have a broader yellow band between them; a pitchy stripe proceeds from the hinder band to the tip of the abdomen: hind shanks brown towards the tips: stripes of the wing tawny, the upper one ceases at three-fourths of the length of the wing, the lower accompanies the sixth longitudinal vein along half its length; a brown spot at the tip of each wing; longitudinal veins nearly straight; lower basal cross-vein approaching very near the sixth longitudinal vein, which it accompanies for half the length of the latter, from thence to the hind border before their junction; middle cross-vein oblique, slightly curved inward till near the base, where it is curved outward; lower cross-vein a little oblique, forming two very slight angles (the lower inward, the upper outward), parted by more than its length from the middle cross-vein, by much more than its length from the tip of the wing, and by less than one-fourth of its length from the hind border.

a. North Bengal. From Miss Campbell's collection.

*DASYNEUBA nebulosa*, n.s., mas. *Ferruginea, facie nigro bimaculata, thorace pectoreque nigro variis, abdominis lateribus piceis, antennis ferrugineis, palpis pedibusque fulvis, alis limpidis fusco nebulosis ad costam obscurioribus.*

Body ferruginous, dull, thinly clothed with very short yellow hairs: head and chest beset with a few black bristles; furrows of the face shining, each adorned with a black spot; sides without bristles; epistoma not prominent: eyes pitchy: fore part flat, its facets larger than those elsewhere; sucker pitchy, clothed with tawny hairs; palpi tawny, broad: feelers ferruginous, as long as the face; third joint dark ferruginous, about twice the length of the second, slightly tapering from the base to the tip, which is conical; bristle pitchy, bare, very slender, pale tawny towards the base, less than twice the length of the third joint: an indistinct black stripe on the fore part of the chest, which on each side has a black band communicating with the black disk of the breast; hind chest black: abdomen elliptical, a little longer and narrower than the chest, somewhat pitchy on each side: legs tawny, clothed with very short yellow hairs; claws black, tawny at the base; fore feet dark tawny towards the tips: wings colourless, brown along the fore borders, paler brown including some colourless streaks on the disk: a slight brown stripe along the sixth longitudinal vein; wing-ribs and veins tawny; upper basal cross-vein a little oblique, very slightly curved outward;

lower basal cross-vein slanting towards the base of the wing till it approaches the sixth longitudinal vein, which, forming a right angle, it accompanies in a waving line towards the hind border; middle cross-vein oblique, having two curves, the lower outward, shorter, and more distinct than the other, which is inward; lower cross-vein slightly oblique, nearly straight, parted by rather more than its length from the middle cross-vein, by twice its length from the tip of the wing, and by hardly one-fourth of its length from the hind border; poisers pale yellow, tawny at the base. Length of the body 3 lines; of the wings 6 lines.

a. ——— ?

### PLATYCEPHALA, *Fallen.*

- PLATYCEPHALA umbraculata, *Meig. Dipt.* vi. 26, 2. *Macq. Hist. Nat. Dipt.* ii. 427, 2. *Musca umbraculata, Fabr. Ent. Syst.* iv. 348, 148. *Oscinis umbraculata, Fabr. Syst. Antl.* 215, 2. *Platycephala agrorum, Fall. Oscinid,* 2, 2.  
a. England. Presented by J. C. Dale, Esq.

### SEPEDON, *Latreille.*

- SEPEDON sphegeus *Fall. Sciom.* 2, 1. *Meig. Dipt.* vi. 28, 1. *Macq. Hist. Nat. Dipt.* ii. 363, 1, pl. 17, f. 16. *Zett. Dipt. Scand.* v. 2120, 1. *Syrphus sphegeus, Fabr. Sp. Ins.* ii. 429, 40. *Ent. Syst.* iv. 298, 72. *Mulio sphegeus, Fabr. Ent. Syst. Suppl.* 559, 9. *Panz. Faun. Germ.* 77, 21. *Baccha sphegea, Fabr. Syst. Antl.* 199, 1. *Scatophaga rufipes, Fabr. Syst. Antl.* 207, 18. *Musca sphegea, Gmel. Ed. Syst. Nat.* i. 5, 2873, 351. *Stew. El.* 265. *Turt.* iii. 646. *M. flavipes, Schrank, Faun. Boic.* iii. 2458. *Mulio dentipes, Schell. Mouch. pl.* 16. *Musca rufipes, Panz. Faun. Germ.* 60, 23. *M. simulator, Harr. Ex.* 152, pl. 45, f. 77. *Sepedon palustris, Latr. Hist. Nat. Cr.* xiv. 386. *Gen. Crust.* iv. 350. *Cons. Gén.* 444. *S. Pseudo-acori, Desv. Essai Myod.* 677, 1.

a. England.

b. France.

- SEPEDON Hæffneri, *Fall. Sciom.* 3, 2. *Meig. Dipt.* vi. 29, 2, pl. 56, f. 22. *Macq. Hist. Nat. Dipt.* ii. 363, 3. *Zett. Dipt. Scand.* v. 2121, 2. *S. aquaticus, Desv. Essai Myod.* 678, 4. *S. ferrugineus, Leon-Dufour, Ann. Sci. Nat.* xxx. 10, 12, pl. 17, f. 7.  
a. England.



*SEPEDON javanensis*, Desv. *Essai Myod.* 677, 2. *Macq. Dipt. Exot.* ii. 3, 177, 2, pl. 24, f. 2.

a. Java. From Mr. Argent's collection.

*SEPEDON ferruginosus*, Wied. *Auss. Zweif.* ii. 577. 1.

a. ——— ?

*SEPEDON macropus*, n. s., mas. *Ferrugineus, capite nigro bimaculato, thorace subvittato, pectore albo micante, abdomine piceo, palpis flavis apice piceis, antennis piceis basi fulvis apice nigris, pedibus fulvis, femoribus tibiisque apice piceis, tarsis anticis nigris posterioribus ferrugineis apice piceis, pedibus posticis longis piceo variis, alis fuscis.* .

Body ferruginous : head with a black spot on each side between the eyes and the feelers ; sides of the face without bristles ; epistoma not prominent ; peristoma slightly lengthened : eyes pitchy, convex ; all the facets of moderate size : sucker pitchy, clothed with pale yellow hairs ; palpi yellow, with pitchy tips, beset with a few black bristles : feelers longer than the head ; first joint short, tawny ; second pitchy, more than five times the length of the first, thickly clothed with short black hairs, slightly increasing in depth towards the tip ; third black, deeper than the second, and full half its length, straight beneath, concave above from half the length to the tip, which is obliquely truncated ; bristle downy, pitchy, and stout for half the length from the base, slender and white from thence to the tip, rather shorter than the second joint : chest indistinctly striped ; breast adorned with white lustre : abdomen elliptical, pitchy, a little longer and broader than the chest : legs tawny ; tips of the thighs and of the shanks pitchy ; fore feet black ; four hinder feet ferruginous with pitchy tips : hind legs very long, their thighs beset beneath with short black spines and adorned with a pitchy band near the tips, their shanks slightly curved, pitchy, with the exception of a tawny band near the tips ; foot-cushions yellow ; claws black : wings brown, darkest along the fore borders ; wing-ribs tawny ; veins black, tawny at the base ; lower cross-vein slightly curved outward, parted by more than thrice its length from the middle cross-vein and from the tip of the wing, and by one-third of its length from the hind border ; poisers yellow, with pitchy knobs. Length of the body 3 lines ; of the wings 6 lines.

a. Jamaica. From Mr. Gosse's collection.

SEPEDON Crishna, n. s., mas. *Ferruginea, capite antico fulvo, thoracis disco abdomineque nigris, palpis fulvis, antennis piceis basi ferrugineis, pedibus piceis, tibiis posticis femoribusque ferrugineis, alis fuscis ad costam subfulvis.*

Body ferruginous: head and chest beset with very few black bristles: head tawny in front; sides of the face without bristles; peristoma advanced; epistoma not prominent: eyes pitchy, convex; all the facets very small: sucker pitchy, clothed with tawny hairs; palpi tawny: feelers pitchy, longer than the head; first joint ferruginous, very short; second joint clothed with black hairs, tawny at the base, about four times the length of the first; third joint conical, pointed at the tip, ferruginous at the base, less than half the length of the second; bristle pale yellow, stout, downy, not longer than the third joint: disk of the chest black: abdomen black, spindle-shaped, a little narrower but not longer than the chest: legs pitchy; hips tawny; thighs ferruginous; claws black; foot-cushions dull pale yellow; hind thighs stout, tawny at the base, armed beneath with a double row of black spines, which increase in length towards the tips; hind shanks ferruginous, slightly curved, pitchy at the tips: wings brown; a tawny tinge along the fore border; wing-ribs and veins dark tawny; longitudinal veins straight; a brown spot on part of the middle cross-vein, which is short, straight and slightly oblique; lower cross-vein upright, with two hardly perceptible curves, the lower outward, the upper inward, parted by more than twice its length from the middle cross-vein and from the tip of the wing, and by more than half its length from the hind border; poisers pitchy. Length of the body  $3\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. Nepaul. From the Hardwicke bequest.

### DORYCERA, Meigen.

DORYCERA graminum, Meig. *Dipt.* vi. 30, 1, pl. 57, f. 1—5. *Macq. Hist. Nat. Dipt.* ii. 428, 1. *Musca graminum, Fabr. Ent. Syst.* iv. 346, 143. *Musca, &c., Geoff. Ins.* ii. 504, 25. *Scatophaga graminum, Fabr. Syst. Antl.* 205, 8. *Dictya graminum, Latr. Hist. Nat. Crust.* xiv. 384. *Tetanocera graminum, Latr. Gen. Crust.* iv. 351. *Coq. Illust. pl.* 24, f. 11. *Oscinis thamnica, Desv. Essai Myod.* 712, 1.

a. England. Presented by F. Walker, Esq.

b. France.

c. ———? From Mr. Children's collection.

TETANOCERA, *Dumeril*.Div. A. *Meig.*a. *Meig.*Group *Limnia*, *Desv. Essai Myod.* 684.

TETANOCERA marginata, *Meig. Dipt.* vi. 33, 1, pl. 57, f. 9. *Macq. Hist. Nat. Dipt.* ii. 366, 3. *Loew, Dipt. Beitr. Posen.* 1845, 40, 2. *Ent. Zeit. Stett.* viii. (Group 1). *Zett. Dipt. Scand.* v. 2128, 4. *Musca marginata, Fabr. Sp. Ins.* ii. 449, 74. *Ent. Syst.* iv. 345, 139. *Panz. Faun. Germ.* 32, 22. *Schell. Gen. Mouch. pl.* 5, f. 2. *Scatophaga marginata, Fabr. Syst. Antl.* 203, 1. *S. cineta? Fabr. Syst. Antl.* 206, 11. *Musca limbata, Gmel. Ed. Syst. Nat.* i. 5, 2853, 233. *Volucella marginata, Schrank, Faun. Boic.* iii. 2494. *Tetanocera crinicornis, Fall. Sciom.* 5, 3. *Musca tristis, Harr. Ex.* 115, pl. 34, f. 13. *Limnia marginata, Desv. Essai Myod.* 686, 4.

- a. England. Presented by F. Walker, Esq.
- b. England. Presented by F. Walker, Esq.
- c. France.
- d. ——— ? Presented by the Entomological Club.

TETANOCERA stictica, *Latr. Gen. Crust.* iv. 350. *Meig. Dipt.* vi. 34. *Macq. Hist. Nat. Dipt.* ii. 367, 5. *Loew, Ent. Zeit. Stett.* viii. 114. (Group 2.) *Scatophaga stictica, Fabr. Syst. Antl.* 206.

- a. England.

Group *Pherbina*, *Desv. Essai Myod.* 687.

TETANOCERA reticulata, *Latr. Gen. Crust.* iv. 350, *Meig. Dipt.* vi. 35, 5. *Macq. Hist. Nat. Dipt.* ii. 368, 7. *Zett. Ins. Lapp.* 740, 2. *Dipt. Scand.* v. 2126, 2. *Loew, Ent. Zeit. Stett.* viii. (Group 3, B.) *Musca reticulata, Fabr. Sp. Ins.* ii. 450, 77. *Ent. Syst.* iv. 347, 145. *Gmel. Ed. Syst. Nat.* i. 5, 2854, 235. *Scatophaga reticulata, Fabr. Syst. Antl.* 206, 12. *Tetanocera obsoleta, Fall. Sciom.* 5, 2. *Latr. Gen. Crust.* iv. 351. *Pherbina reticulata, Desv. Essai Myod.* 688.

- a. England. Presented by F. Walker, Esq.
- b. England. Presented by F. Walker, Esq.
- c. France.

**TETANOCERA rufifrons**, *Latr. Gen. Crust.* iv. 351. *Fall. Sciom.* 5, 4. *Meig. Dipt.* vi. 36, 6. *Macq. Hist. Nat. Dipt.* ii. 368, 8. *Zett. Dipt. Scand.* v. 2130, 6. *Loew, Ent. Zeit.* viii. (Group 2.) *Musca rufifrons*, *Fabr. Sp. Ins.* ii. 449, 76. *Ent. Syst.* iv. 346, 142. *Gmel. Ed. Syst. Nat.* i. 5, 2854, 234. *Panz. Faun. Germ.* 60, 22. *Scatophaga rufifrons?* *Fabr. Syst. Antl.* 205, 7. *Tetanocera reticulata*, *Fall. Sciom.* 5, 4. *T. recta*, *Loew, Dipt. Beitr. Posen.* 1845, 4.

a. England.

**TETANOCERA pratorum**, *Fall. Sciom.* 6, 5. *Meig. Dipt.* vi. 37, 7. *Latr. Gen. Crust.* iv. 350. *Macq. Hist. Nat. Dipt.* ii. 368, 10. *Zett. Ins. Lapp.* 740, 4. *Dipt. Scand.* v. 213, 7. *Loew, Ent. Zeit. Stett.* (Group 2.) *Scatophaga rufifrons?* *Fabr. Syst. Antl.* 205, 7. *Musca flavifrons*, *Panz. Faun. Germ.* 60, 22. *Limnia limbata*, *Desv. Essai Myod.* 685, 1.

a. England. Presented by F. Walker, Esq.

b. England. Presented by F. Walker, Esq.

c. France.

d. ———? From Mr. Children's collection.

e. North America. Presented by the Entomological Club.

**TETANOCERA oblitterata**, *Fall. Sciom.* 7, 6. *Latr. Gen. Crust.* iv. 351. *Meig. Dipt.* vi. 38, 8. *Macq. Hist. Nat. Dipt.* ii. 366, 1. *Loew, Dipt. Beitr. Posen.* 1845, 46, 12. *Ent. Zeit. Stett.* viii. (Group 6.) *Zett. Dipt. Scand.* v. 2133, 8. *Scatophaga oblitterata*, *Fabr. Syst. Antl.* 205, 9. *Musca varicus*, *Harr. Ex.* 115, pl. 45, f. 82.

a. England.

b. Aix-la-chapelle. Presented by F. Walker, Esq.

**TETANOCERA punctata**, *Meig. Dipt.* vi. 38, 9, pl. 57, f. 15. *Macq. Hist. Nat. Dipt.* ii. 369, 11. *Zett. Ins. Lapp.* 740, 3. *Dipt. Scand.* v. 2127, 3. *Loew, Ent. Zeit. Stett.* viii. (Group 3, B.) *Musca punctata*, *Fabr. Ent. Syst.* iv. 347, 147. *Scatophaga punctata*, *Fabr. Syst. Antl.* 207, 17.

a. England.

**TETANOCERA Hieracii**, *Meig. Dipt.* vi. 39, 11, pl. 57, f. 18. *Macq. Hist. Nat. Dipt.* ii. 369, 13. *Loew, Ent. Zeit. Stett.* viii. (Group 3, A.) *Musca Hieracii*, *Fabr. Ent. Syst.* iv. 361, 201. *Tephritis Hieracii*, *Fabr. Syst. Antl.* 322, 29. *Oscinis Argus*, *Fabr. Syst. Antl.* 216, 7. *Tetanocera nemorum*, *Fall. Sciom.* 8, 8.

a. England. Presented by F. Walker, Esq.

b. England. Presented by F. Walker, Esq.

c. France.

d. ———? From Mr. Children's collection.

**TETANOCERA umbrarum**, *Fall. Sciom.* 77. *Meig. Dipt.* vi. 39, 10. *Zett. Ins. Lapp.* 741, 5. *Loew, Ent. Zeit. Stett.* viii. (Group 3, A.) *Musca umbrarum*, *Linn. Syst. Nat.* ii. 996, 108. *Faun. Suec.* 1864. *Scatophaga gemmata*, *Ahrens. Faun.* 3, 21.

- a. England. Presented by the Entomological Club.
- b. England. Presented by J. C. Dale, Esq.
- c. France. From Mr. Children's collection.

b. *Meig.*

**TETANOCERA ferruginea**, *Fall. Sciom.* 9, 9. *Meig. Dipt.* vi. 40, 12. *Macq. Hist. Nat. Dipt.* ii. 370, 15. *Zett. Ins. Lapp.* 741, 7. *Dipt. Scand.* v. 2137, 11. *Loew, Ent. Zeit. Stett.* viii. 197, 2. (Group 4.) *T. stictica*? *Desv. Essai Myod.* 681, 1.

- a. England. Presented by F. Walker, Esq.
- b. England. Presented by F. Walker, Esq.
- c. ———? From Mr. Children's collection.

**TETANOCERA elata**, *Fall. Sciom.* 9, 10. *Meig. Dipt.* vi. 41, 14, pl. 57, f. 16. *Macq. Hist. Nat. Dipt.* ii. 370, 17. *Zett. Ins. Lapp.* 741, 9. *Dipt. Scand.* v. 2139, 13. *Loew, Ent. Zeit. Stett.* viii. 200, 6. (Group 4.) *Musca elata*, *Fabr. Sp. Ins.* ii. 441, 27. *Ent. Syst.* 322, 44. *Syst. Antl.* 297, 69. *Gmel. Ed. Syst. Nat.* i. 5, 2842, 188. *Volucella elata*, *Schrank, Faun. Boic.* iii. 2493. *Tetanocera marginella*, *Desv. Essai Myod.* 682, 3.

- a. England. Presented by F. Walker, Esq.
- b. England. Presented by F. Walker, Esq.
- c. ———? From Mr. Children's collection.
- d. France.
- e. North America. Presented by the Entomological Club.
- f. Nova Scotia. From Lieut. Redman's collection.
- g. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

**TETANOCERA sylvatica**, *Meig. Dipt.* vi. 41, 15. *Macq. Hist. Nat. Dipt.* ii. 371, 18. *Zett. Ins. Lapp.* 742, 10. *Dipt. Scand.* v. 2139, 14. *Loew, Ent. Zeit. Stett.* viii. 199. (Group 4.) *T. ferruginea*, var. *minor*, *Fall. Sciom.* 9, 9.

- a. England.
- b. ———? From Mr. Children's collection.

Div. B. *Meig.*a. *Meig.*Group Chione, *Desv. Essai Myod.* 679.

TETANOCERA aratoria, *Meig. Dipt.* vi. 42, 16, *pl.* 58, *f.* 17. *Macq. Hist. Nat. Dipt.* ii. 371, 19. *Zett. Ins. Lapp.* 742, 12. *Loew, Ent. Zeit. Stett.* viii. (Group 5.) *Musca aratoria, Fabr. Ent. Syst.* iv. 344, 132. *Syst. Antl.* 306, 113. *M. rufifrons?* *Panz. Faun. Germ.* 44, 24. *Tetanocera interstincta, Fall. Sciom.* 10, 12. *Chione communis, Desv. Essai Myod.* 690, 1.

a. England. Presented by F. Walker, Esq. •

b. England. Presented by F. Walker, Esq.

c. ———? From Mr. Children's collection.

TETANOCERA lineata, *Fall. Sciom.* 11, 4. *Meig. Dipt.* vi. 43, 18. *Zett. Dipt. Scand.* v. 2144, 18. *Loew, Ent. Zeit. Stett.* viii. (Group 5.) *Musca rufifrons?* *Panz. Faun. Germ.* 44, 14.

a. England.

b. ———? From Mr. Children's collection.

TETANOCERA cucullaria, *Meig. Dipt.* vi. 44, 19. *Marq. Hist. Nat. Dipt.* ii. 366, 2. *Loew, Ent. Zeit. Stett.* viii. (Group 5.) *Musca cucullaria, Linn. Syst. Nat. Ed.* xii. 2, 995, 103. *Gmel. Ed. Syst. Nat.* i. 5, 2853, 103. *Turt.* iii. 615.

a. England. Presented by F. Walker, Esq.

b. England. Presented by F. Walker, Esq.

c. ———? From Mr. Children's collection.

TETANOCERA rufa, *Loew. Dipt. Beitr. Posen,* 1845, 42, 6. *Ent. Zeit. Stett.* viii. (Group 5.) *Zett. Dipt. Scand.* v. 2141, 15. *Musca cucullaria, Fabr. Sp. Ins.* ii. 449, 71. *Ent. Syst.* iv. 345, 136. *M. rufa, Panz. Faun. Germ.* 54, 17. *Scatophaga cucullaria, Fabr. Syst. Antl.* 204, 2? *Tetanocera cucullaria, Fall. Sciom.* 9. 11. *Zett. Ins. Lapp.* 742, 11.

a. England.

b. ———? From Mr. Children's collection.

TETANOCERA guttularis, *Weid. Auss. Zweif.* ii. 584. 3.

a. North America. Presented by the Entomological Club.

b. New York. Presented by E. Doubleday, Esq.

TETANOCERA canadensis, *Macq. Dipt. Exot.* ii. 3, 181, 4, *pl.* 24, *f.* 5.

a. North America. Presented by the Entomological Club.

b. Florida. Presented by E. Doubleday, Esq.

c. New York. Presented by E. Doubleday, Esq.

d. Georgia. From Mr. Abbot's collection.

**TETANOCEBA** *Sigma*, *White*, *Zool. Voy. Erebus and Terror. Ferruginea, capite supra fulvo, thorace quadrivittato, palpis nigris, antennis pedibusque ferrugineis, alis cinereis ad costam fulvis fusco novem-maculatis, nervo transverso contorto.*

Body ferruginous, thinly clothed with black hairs and bristles: crown and hind part of the head beset with black bristles; crown bright tawny, with the exception of a narrow ferruginous stripe between the eyelets and the base of the feelers; face large, flat, silky-white, with a yellow tinge, having four little black hairs on each side: eyes black; fore part red, rather flat, composed of much larger facets than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers ferruginous, nearly as long as the face; second joint thickly beset with black bristles; third conical, a little broader but hardly longer than the second, dark ferruginous, except at the base; bristle black, tawny at the base, feathered with short hairs, much more than twice the length of the third joint: crown concave in the middle, convex and ferruginous on each side: fore border of the chest with four indistinct darker stripes; breast paler than the chest: abdomen linear, a little longer and narrower than the chest: less ferruginous, rather thick, clothed with short black hairs, beset with a few black bristles; claws black: wings gray, tawny for half the breadth beneath the fore border, adorned with nine brown spots, of which five are along the fore border, one on the middle cross-vein, one at each end of the lower cross-vein, and one on the fourth vein, at a short distance from its tip; the second and third of those on the fore border are close together, and each is rather smaller than the first, but larger than the fourth; the fifth is larger than any of the preceding; wing-ribs tawny; veins black, tawny at the base; lower cross-vein curved into the form of a 8; poisers pale tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. New Zealand. From Mr. Earl's collection.

**TETANOCERA NOVA**, n. s., mas. et fem. *Ferruginea, capite supra fulvo antice flavo maculis fuscis ornato, abdominis apice nigro fasciato, palpis nigris, antennis piceis, pedibus ferrugineis, femoribus tibiisque apice piceis, tibiis basi piceo fasciatis, genibus flavis, alis subcinereis, nervo transverso fusco marginato.*

Body ferruginous, thinly clothed with black hairs and bristles: head tawny on the crown, yellowish white around the eyes, yellow and prominent in front; a brown spot on each side of the face; two paler and more irregular spots on each side of the peristoma; sides of the face without bristles; epistoma not prominent; sides of the peristoma very prominent: eyes red, convex; facets rather large,

especially those on the fore part: sucker tawny, clothed with tawny hairs; palpi black, beset with black bristles: feelers pitchy, much shorter than the face, which has two deep grooves to receive them; second joint ferruginous; third conical, not longer than the second, which it joins obliquely: bristle tawny, bare, more than thrice the length of the third joint: chest adorned with five indistinct hoary stripes: abdomen a little longer and narrower than the chest, rather thickly beset with black bristles on each side, towards the tip bright ferruginous, shining, and adorned with a black band: legs ferruginous, clothed with black hairs and bristles; tips of thighs and of shanks pitchy; knees yellow; a pitchy band at the base of each shank; foot-cushions yellow; tips of the claws black: wings very pale gray; wing-ribs and veins tawny; middle cross-vein slightly clouded with brown; lower cross-vein with two very slight curves, the lower inward, the upper outward, more indistinct than the other; poisers tawny. Length of the body 4 lines; of the wings 9 lines.

a. New Holland. Presented by the Entomological Club.

*TETANOCERA angulifera*, n. s. *Fusca, capite fulvo albo micante facie verticeque maculis nigris ornatis, thoracis lateribus flavo vittatis, palpis flavis apice piceis, antennis piceis basi fulvis, pedibus fulvis.*

Body brown, adorned with tawny bloom, beset with some black bristles: head tawny above, adorned beneath with white lustre; face whitish, with a black spot on the disk, and one at the base of each feeler; its sides without bristles; epistoma not prominent; two black spots on each side of the crown: eyes red; the facets very small: sucker pitchy, clothed with tawny hairs: palpi yellow with pitchy tips, beset with black bristles: feelers pitchy, a little longer than the head; first and second joints tawny; second clothed with black hairs, more than twice the length of the first; third as long as the second, very slightly convex beneath, slightly concave above along half the length from the tip, which is truncated; bristle stout, tawny along half the length, white and slender from thence to the tip, proceeding from very near the base of the third joint, and about twice its length; first and second joints long: a yellow stripe along each side of the chest: abdomen slightly spindle-shaped, a little longer but not narrower than the chest: legs tawny, clothed with short black hairs, beset with very few black bristles; knees, feet, and tips of shanks pitchy; claws black; foot-cushions pale tawny: wings gray, brown along the fore border, fully studded with little colourless spots, which are disposed in eight longitudinal rows; there are also some brown spots along the middle part of the fourth longitudinal vein; wing-ribs and veins pitchy; longitudinal veins straight; mid-



dle cross-vein straight, short, slightly oblique; lower cross-vein straight along the upper half of its course, and then forming two angles (the upper outward and slightly obtuse, the lower inward and very obtuse), parted by full twice its length from the middle cross-vein and from the tip of the wing, and by less than half its length from the hind border; poisers tawny. Length of the body  $2\frac{1}{4}$ — $2\frac{1}{2}$  lines; of the wings  $4\frac{1}{2}$ —5 lines.

a. Monte Video. Presented by C. Darwin, Esq.

**TETANOCERA** Struthio, *Barnston's MSS.*, mas et fem. *Ferruginca, capite fulvo lateribus nigro bimaculatis, facie palpisque flavis, thorace flavo quadrivittato, antennis fulvis, pedibus flavis, femoribus anticis apice tarsisque piceis, alis fulvis costa venisque transversis fusco nebulosis.*

Body ferruginous: head and chest beset with a few stout black bristles; head bright tawny, adorned with a black spot on each side between the feelers and the eyes; face pale yellow; its sides without bristles; epistoma slightly prominent: eyes black, convex, the facets very small: sucker ferruginous, clothed with tawny hairs; palpi yellow, beset with black bristles: feelers bright tawny, as long as the head; first joint very short; second beset with black hairs and bristles, increasing in breadth from the base to the tip, more than twice the length of the first; third a little longer than the second, straight beneath, forming an angle above at the insertion of the bristle, whence it abruptly tapers to the tip; bristle black, stout, a little longer than the third joint, from which it proceeds at one-third of the length from the base, thickly feathered to the tip with rather long black hairs: chest adorned with four pale yellow stripes, its sides and the breast tinged with pale yellow: abdomen nearly linear, thinly clothed with black hairs, a little narrower and much longer than the chest: legs yellow, beset with black hairs and bristles; shanks darker than the thighs; feet and tips of the fore thighs pitchy: claws black: wings tawny, brown along the fore border; cross-veins clouded with brown; wing-ribs and veins tawny; longitudinal veins straight; middle cross-vein straight; lower cross-vein parted by near twice its length from the middle cross-vein, and from the end of the fourth longitudinal vein, and by nearly half its length from the end of the fifth longitudinal vein, having two curves, the upper outward, much larger than the other, which is inward; poisers pale tawny. Length of the body 4 lines; of the wings 7 lines.

Var.  $\beta$ . Two rudiments of veins clouded with brown on the fourth longitudinal vein between the cross-veins.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

b. North America. Presented by the Entomological Club.

- Group Phrosia, *Desv. Essai Myod.* 668.  
 Group Delina, *Desv. Essai Myod.* 669.  
 Group Volusia, *Desv. Essai Myod.* 674.  
 Group Sargella, *Desv. Essai Myod.* 674.  
 Group Myopina, *Desv. Essai Myod.* 675.  
 Group Cylidria, *Desv. Essai Myod.* 678.  
 Group Retellia, *Desv. Essai Myod.* 683.  
 Group Salticella, *Desv. Essai Myod.* 683.  
 Group Hydromya, *Desv. Essai Myod.* 691.  
 Group Dytia, *Desv. Essai Mysod.* 692.  
 Group Melina, *Desv. Essai Myod.* 695.  
 Group Arina, *Desv. Essai Myod.* 696.  
 Group Chetocera, *Desv. Essai Myod.* 697.  
 Group Herbina, *Desv. Essai Myod.* 698.

#### OXYCEPHALA, Macquart.

OXYCEPHALA fuscipennis, *Macq. Dipt. Exot.* ii. 3, 198, pl. 26, f. 6.  
*Sphecomya undata*, *Harr. Cat. Ins. Massach.*

a. North America. Presented by the Entomological Club.

OXYCEPHALA nigripennis. *Myopa nigripennis*, *G. R. Gray, Griff. Anim. Kingd.* pl. 125, f. 5.

a. ——— ?

OXYCEPHALA latipennis, n. s., fem. *Ferruginea, capite fulvo, scutello abdominisque lateribus basi fulvis, palpis flavis, antennis ferrugineis, pedibus fulvis, alis subcinereis ad costam fulvis apice fuscis.*

Body ferruginous, thinly clothed with very short yellow hairs: head and chest beset with a few black bristles: head tawny, with a furrow on each side of the crown; a punctured space on each side between the eyes and the sides of the face, the latter without bristles: epistoma not prominent: eyes pitchy; all the facets large: sucker tawny, clothed with tawny hairs; palpi yellow, rather large, beset with black bristles: feelers bright ferruginous, lodged in rather deep furrows of the face, which they slightly exceed in length; first joint nearly linear; second increasing in depth from the base to the tip,

clothed with black hairs, about twice the length of the second; third conical, as long as the second and a little darker; bristle pale yellow, slender, bare, near thrice the length of the third joint; chest and breast with a hoary tinge; scutcheon tawny; abdomen spindle-shaped, a little longer than the chest, tawny on each side of the base, somewhat pitchy on the borders of the segments: legs tawny, clothed with very short yellow hairs; tips of the claws black: wings very slightly gray, tawny along the fore borders; a large brown spot just above each tip; wing-ribs and veins ferruginous, the latter pitchy here and there; upper basal cross-vein straight, slightly oblique; lower basal cross-vein much curved inward, a little nearer the base than the other; middle cross-vein pitchy, short, stout, straight, upright; lower cross-vein nearly upright, with a hardly perceptible inward curve, parted by much less than its length from the middle cross-vein, by a little more than its length from the end of the fourth longitudinal vein, and by little more than one-fourth of its length from the end of the fifth longitudinal vein; poisers yellow. Length of the body 6 lines; of the wings 12 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

### HETEROMYZA, *Fallen.*

#### Group I.

HETEROMYZA oculata, *Fall. Heterom.* 2, 1. *Meig. Dipt.* vi. 46, 3.  
*Hal. Ent. Mag.* i. 168. *Macq. Hist. Nat. Dipt.* ii. 415, 2.

a. England.

HETEROMYZA buccata, *Fall. Heterom.* 2, 2. *Meig. Dipt.* vi. 47, 4.  
*Zett. Ins. Lapp.* 763, 1. *H. atricornis?* *Meig. Dipt.* vi. 46, 1.

• *Actora buccata*, *Hal. Ent. Mag.* i. 168.

a. England.

b. France.

c. Sweden. Presented by the Entomological Club.

d. Lapland. Presented by the Entomological Club.

e. Nova Scotia. From Lieut. Redman's collection.

f. Alten. Presented by F. Walker, Esq.

HETEROMYZA eriphides, *Barnston's MSS.*, mas. *Fusca, capite supra ferrugineo subtus albo, facie fulva, pectore albo, ventre cano antennis piceis, palpis pedibusque fulvis, tarsis piceis, alis fuscis.*

Body brown, clothed with black hairs and bristles: face tawny, its sides without bristles; epistoma not prominent; a white stripe on each side of the face; under side of the head white; crown dark

ferruginous; eyes red, whole of the fore part nearly flat, composed of much larger facets than those elsewhere: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: chest dark brown, its sides paler; breast white: feelers pitchy, a little shorter than the face; third joint conical, deep, about twice the length of the second joint, which is cup-shaped: abdomen dark brown, linear, longer and narrower than the chest, its sides paler and rather thickly clothed with long black hairs; underside hoary: legs dark tawny, clothed with very short black hairs; thighs with a hoary tinge; feet pitchy, tawny at the base; claws black; foot-cushions tawny: wings brown, long; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein very slightly curved inward, situated near the border, and about thrice its length distant from the middle cross-vein; scales gray, with tawny borders, very small; poisers tawny. Length of the body 2 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*HETEROMYZA flavipes*, Barnston's MSS. *Cinereo-nigra, capite ferrugineo albo micante, thorace fusco trivittato, pectore cano, antennis ferrugineis, palpis pedibusque fulvis, tarsis nigris, alis cinereis.*

Body black, with a gray covering, thinly clothed with black hairs and bristles: head ferruginous, gray behind; sides of the crown and front adorned with white lustre; sides of the face without bristles; epistoma not prominent: eyes red, not hairy; fore part rather flat; all the facets very small: sucker black, clothed with tawny hairs: palpi tawny, beset with black bristles: feelers ferruginous, a little shorter than the face; third joint nearly round, a little longer than deep, more than twice the length of the second; bristle black, slender, almost bare, more than twice the length of the third joint; chest adorned with three broad brown stripes, the side pair interrupted: breast hoary: abdomen slightly tapering from the base to the tip, narrower but hardly longer than the chest: legs tawny, clothed with black hairs and bristles; feet black, tawny at the base; foot-cushions tawny: wings narrow, very long, dark gray; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein straight for one-fourth of the length from the base, slightly curved inward from thence to the tip; scales very small, gray with tawny borders; poisers tawny. Length of the body 2 lines; of the wings 5 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

Group II. *Clusia*, *Haliday*.

- HETEROMYZA*, *flava*, *Meig. Dipt.* vi. 46. *Heteroneura spurca*, *Hal. Ent. Mag.* i. 171. *Clusia flava*, *Hal. Ann. Nat. Hist.* 1839, 188. *Helomyza flava?* *Zett. Ins. Lapp.* 765, 4.  
a. England. Presented by F. Walker, Esq.

*HELOMYZA*, *Fallen*.Div. A. *Meig*.Group *Suillia*, *Desv. Essai Myod.* 642.

- HELOMYZA rufa*, *Fall. Helom.* 4, 2. *Meig. Dipt.* vi. 49, 2. *Macq. Hist. Nat. Dipt.* ii. 410, 2. *Zett. Ins. Lapp.* 765, 3. *Suillia fungorum*, *Desv. Essai Myod.* 642, 2.  
a. England.

- HELOMYZA olens*, *Meig. Dipt.* vi. 50, 4.  
a. England.

- HELOMYZA tigrina*, *Fall. Heterom.* 4, 3. *Meig. Dipt.* vi. 53, 11. *Macq. Hist. Nat. Dipt.* ii. 412, 8.  
a. England.

- HELOMYZA griseola*, *Meig. Dipt.* vi. 53, 12.  
a. England.

Group *Curtonotum*, *Macquart*.

- HELOMYZA gibba*, *Wied. Auss. Zweif.* ii. 586, 1. *Musca gibba*, *Fabr. Syst. Antl.* 297, 70. *Curtonotum gibbum*, *Macq. Dipt. Exot.* ii. 3, 193, pl. 25, f. 6, 7.  
a. Para. Presented by Reginald Graham, Esq.

- HELOMYZA pantherina*, n. s., mas. *Fulva, capite piceo vario, thorace fusco confertim guttato, pectore cano, abdomine piceo, palpis nigris, antennis ferrugineis apice nigris, pedibus fulvis, alis fuscis.*

Body thinly clothed with black hairs and bristles: head tawny, with two pitchy stripes on the crown from the eyelets to the base of each feeler; disk of the face pitchy, its sides with two or three bristles at the base; epistoma hardly prominent: eyes red, a small

portion of the fore part yellowish, rather flat, composed of larger facets than those elsewhere: sucker black, clothed with tawny hairs; palpi black, beset with black bristles: feelers ferruginous, hardly more than half the length of the face; third joint conical, dark ferruginous, black towards the tip, much longer than the second; bristle black, slender, much more than twice the length of the third joint, feathered on both sides with very long hairs: chest tawny, thickly crowded with small brown spots, one round the base of each hair; sides paler and blending with the hoary colour which adorns the breast; scutcheon armed with some long black spines: abdomen pitchy, spindle-shaped, narrower but not longer than the chest, adorned with hoary reflections above and beneath: legs tawny, clothed with black hairs and bristles; feet thickly beset with short black bristles; claws black: wings brown, darker on the fore border from the middle to the tip and along the borders of the veins; wing-ribs pitchy; veins black, pitchy at the base; lower cross-vein clouded with brown, nearly perpendicular, slightly curved inward in the middle part of its course, nearly four times its length distant from the middle cross-vein; poisers pale tawny, with yellow knobs. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

a. Brazil.

*HELOMYZA suffusa*, n. s., fem. *Fulva, facie flava, abdominis apice et segmentorum tertii et quarti marginibus posticis piceis, palpis antennis pedibusque fulvis, tibiis anticis apice tarsisque piceis, alis fulvis fusco vittatis et bimaculatis.*

Body tawny, clothed with black hairs and bristles: face pale yellow, its sides without bristles; epistoma not prominent: eyes red; fore part rather flat, its facets larger than those elsewhere: sucker tawny, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny, shorter than the face; third joint conical, rounded at the tip, more than twice the length of the second; bristle black, slender, feathered on each side with moderately long hairs, full thrice the length of the third joint, tawny at the base: breast paler than the chest, somewhat yellowish: abdomen obconical, shorter and narrower than the chest; tip and hind borders of the third and fourth segments pitchy: legs pale tawny, clothed with black hairs and bristles; feet and tips of fore shanks pitchy; claws black: wings tawny, darker at the base, near which a brown stripe commences and runs along the border to the tip, which it includes with the exception of the hind border; two brown spots enclose the middle and lower cross-veins; wing-ribs tawny; veins black, tawny at the base; lower cross-vein nearly perpendicular, very slightly curved inward in the middle part of its course, distant by much

more than its length from the middle cross-vein; poisers yellow. Length of the body 4 lines; of the wings 7 lines.

a. ——— ?

*HELOMYZA interjecta*, n. s., fem. *Fulva, capite flavo vario, abdomine nigro-fasciato, palpis antennis pedibusque fulvis, alis fulvis fusco bimaculatis et ad costam villatis.*

Body tawny, thinly clothed with black hairs and bristles: head yellow in front, and indistinctly striped with yellow on the crown; epistoma not prominent; face quite flat, without hairs or bristles: eyes red; fore part flat, composed of much larger facets than those elsewhere: sucker tawny, clothed with pale tawny hairs: palpi tawny, beset with black bristles: feelers tawny, much shorter than the face; third joint conical, rather deep, rounded at the tip, about thrice the length of the second; bristle black, slender, feathered with hairs of moderate length at the base, about thrice the length of the third joint: breast pale tawny: abdomen obconical, narrower but not longer than the chest; hind borders of the second and of the following segments black; tip also black: legs tawny, clothed with black hairs and with a few black bristles; tips of the claws black; fore thighs armed beneath with a row of long stout black bristles: wings tawny; a brown stripe passes from one-fourth of the length of the fore border to the tip, where it widens and becomes paler and blends with the gray of the hind border; two brown spots enclose the middle and lower cross-veins; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein straight, with the exception of a very slight inward curve in the middle of its course, more distant by half than its length from the middle cross-vein; poisers tawny. Length of the body 3 lines; of the wings 6 lines.

a. Venezuela. From Mr. Dyson's collection.

*HELOMYZA tincta*, n. s., fem. *Ferruginea, abdominis basi apiceque fulvis, palpis fulvis, pedibus ferrugineis, alis cinereis costa nervorumque marginibus fulvis.*

Body ferruginous, clothed with short black hairs: head and chest beset with a few black bristles: head with a hoary tinge behind; sides of the face without bristles; epistoma not prominent: eyes pitchy; facets small: sucker pitchy, clothed with tawny hairs; palpi tawny, beset with black bristles: feelers tawny at the base: abdomen linear, pitchy, a little narrower and very much longer than the chest, tawny at the base, tapering towards the tip, which is also tawny: legs pale ferruginous, clothed with short black hairs; tips of the shanks beset with black bristles; claws black, ferruginous at

the base; foot-cushions pale tawny; wings gray, tawny for some breadth beneath the fore border and along the veins in the disk; wing-ribs and veins tawny; longitudinal veins straight; middle cross-vein straight, upright; lower cross-vein straight, very slightly oblique, parted by more than twice its length from the middle cross-vein, by thrice its length from the end of the fourth longitudinal vein, and by near half its length from the end of the fifth longitudinal vein; poisers tawny; scales yellow, very small. Length of the body  $3\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

a. Nova Scotia. From Lieut. Redman's collection.

*HELOMYZA* quadrimacula, n. s., mas. *Fulva, lateribus subtiliusque flava, palpis flavis, antennis pedibusque fulvis, tarsis ferrugineis, alis fulvis fusco quadrimaculatis.*

Body pale tawny, yellow on each side and beneath, thinly clothed with black hairs: head and chest beset with a few black bristles: sides of the face without bristles; epistoma not prominent: eyes red, with a coppery tinge, fringed with short black hairs; fore part rather flat, its facets a little larger than those elsewhere: sucker and palpi yellow: feelers tawny, a little shorter than the face; third joint conical, downy, twice the length of the second; bristle black, tawny at the base, much more than twice the length of the third joint, feathered to the tip on both sides with rather long black hairs: abdomen obconical, narrower and a little shorter than the chest: legs tawny, thinly clothed with very short black hairs; feet ferruginous; claws black; thighs beset with rows of short black bristles: wings tawny, each adorned with four brown spots, one on each cross-vein, the third near the tip, descending from the fore border into the disk, and approaching the fourth which is near the hind border; wing-ribs and veins tawny, the latter darker towards the tips, pitchy in the brown parts of the wing; longitudinal veins straight; middle cross-vein straight, slightly oblique; lower cross-vein nearly straight, slightly oblique, parted by nearly twice its length from the middle cross-vein, by much more than twice its length from the end of the fourth longitudinal vein, and by half its length from the end of the fifth longitudinal vein, which does not reach the hind border; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.



## Div. B. Meig.

Group *Æcothea*, Haliday.

*HELOMYZA fenestralis*, Fall. *Heterom.* 5, 5. *Meig. Dipt.* vi. 56, 18. *Blephariptera fenestralis*, Macq. *Hist. Nat. Dipt.* ii. 414, 9. *Æcothea fenestralis*, Haliday, *Ann. Nat. Hist.* 1839, 187.

a. England.

Group *Blephariptera*, Macq.

*HELOMYZA inscripta*, Meig. *Dipt.* vi. 59, 26. *Blephariptera inscripta*, Macq. *Hist. Nat. Dipt.* ii. 414, 10.

a. England.

*HELOMYZA fasciata*, n. s. *Cinerea, capite albo micante, humeris ferrugineis, abdomine fulvo suturis nigris, antennis nigris basi ferrugineis, pedibus fulvis, tarsis nigris, alis fulvo subcinereis.*

Body clothed with black hairs and bristles: head gray, adorned with white reflections on each side of the crown and on the fore part, which is tawny; sides of the face without bristles; epistoma not prominent: eyes red, convex; all the facets very small: sucker black, clothed with tawny hairs: feelers black, nearly as long as the face; third joint slightly conical, rather deep, rounded at the tip, very much longer than the second joint; first and second joints dark ferruginous; bristle bare, rather stout at the base, more than twice the length of the third joint: chest and breast gray: chest with a tawny tinge; shoulders ferruginous; breast more hoary: abdomen tawny, shining, spindle-shaped, a little longer than the chest, slender at the tip; sutures of the segments black: legs tawny, clothed with black hairs and bristles; feet black, tawny at the base; foot-cushions very small: wings pale gray, with a very slight tawny tinge; wing-ribs pale tawny; veins pitchy, pale tawny towards the base; lower cross-vein parted by much less than twice its length from the middle cross-vein, having two very indistinct curves, the lower outward, the upper inward; scales very small, whitish, with pale yellow borders; poisers tawny. Length of the body 2 lines; of the wings 4 lines.

a. Nova Scotia. From Lieut. Redman's collection.

*HELOMZYA?* *lateralis*, n. s., fem. *Fulva, thoracis lateribus fusco vittatis, pectore abdomineque flavis, hujus maculis apiceque flavis, palpis antennis pedibusque fulvis, alis subfulvis apice fusco maculatis.*

Body tawny, beset with a few long and stout black bristles: head and chest without hairs: epistoma not prominent; face flat, adorned with a black stripe on each side, its sides without bristles: eyes red, slightly convex; facets on the hind part smaller than those elsewhere: sucker pale tawny, clothed with tawny hairs; palpi pale tawny: feelers tawny, much shorter than the face; third joint nearly round, longer than the second; bristle black, slender, downy, full thrice the length of the third joint: a brown stripe along each side of the chest: breast yellow: abdomen yellow, slightly tapering\* from the base to the tip, narrower and much longer than the chest, clothed with black hairs and bristles; a large pitchy spot extends from the fore border as far as the middle on each side of every segment; tip of the abdomen also pitchy: legs tawny, clothed with short black hairs and with a few black bristles; claws black; fore feet, with the exception of the first joint, dark tawny; wings slightly tawny; a large brown spot at the tip, paler towards the hinder border, on approaching which it disappears; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein curved inward, distant by thrice its length from the middle cross-veins; poisers yellow. Length of the body 3 lines; of the wings 5 lines.

a. North America. Presented by the Entomological Club.

Group *Leria*, *Desv. Essai Myod.* 653.

Group *Thelida*, *Desv. Essai Myod.* 655.

Group *Lentiphora*, *Desv. Essai Myod.* 656.

Group *Orbellia*, *Desv. Essai Myod.* 656.

#### DICHÆTA, *Meigen.*

*DICHÆTA caudata*, *Meig. Dipt. vi.* 62, 1, *pl.* 58, *f.* 1—6. *Macq. Hist. Nat. Dipt. ii.* 521, 1, *pl.* 21, *f.* 8. *Notiphila caudata*, *Fall. Act. Holm.* 1813, 249, 1. *Hydromyz.* 8, 1. *Zett. Ins. Lapp.* 717, 2. *Haliday, Ann. Nat. Hist. iii.* 222, 4. *Stenh. Monogr.* 194, 1. *Zett. Dipt. Scand. v.* 1853, 1.

a. Aix-la-Chapelle. Presented by F. Walker, Esq.

NOTIPHILA, *Fallen.*Group Keratocera, *Desv. Essai Myod.* 288.

NOTIPHILA cinerea, *Fall. Act. Holm.* 1813, 250, 2. *Hydromyz.* 8, 2. *Meig. Dipt.* vi. 64, 1. *Matq. Hist. Nat. Dipt.* ii. 521, 1, pl. 21, f. 9. *Haliday, Ann. Nat. Hist.* iii. 222, 1. *Zett. Ins. Lapp.* 717, 1. *Stenh. Monogr.* 200, 5, f. 11—15. *Zett. Dipt. Scand.* v. 1855, 2. *Keratocera palustris, Desv. Essai Myod.* 788, 1. *K. trapæ, Desv. Essai Myod.* 789, 3. *K. fulvicornis, Desv. Essai Myod.* 789, 4.

a. England.

b. France.

Group Hydrellia, *Desv. Essai Myod.* 790.

NOTIPHILA griscola, *Fall. Act. Holm.* 1813, 250. *Hydromyz.* 9, 5. *Meig. Dipt.* vi. 66, 6, pl. 58, f. 13? *Zett. Ins. Lapp.* 717, 3. *Stenh. Monogr.* 220, 20. *Zett. Dipt. Scand.* v. 1869, 12. *Hydrellia communis, Desv. Essai Myod.* 791, 1? *H. griseola, Macq. Hist. Nat. Dipt.* ii. 523, 1, pl. 21, f. 10. *Hal. Ann. Nat. Hist.* iii. 403, 7.

a. England. Presented by F. Walker, Esq.

NOTIPHILA chrysostoma, *Meig. Dipt.* vi. 67, 8. *Zett. Dipt. Scand.* v. 1872, 14. *Hydrellia viridescens? Desv. Essai Myod.* 793, 10. *H. chrysostoma, Hal. Ann. Nat. Hist.* iii. 403, 8. *Meig. Dipt.* vii. 373, 9.

a. England. Presented by F. Walker, Esq.

NOTIPHILA albiceps, *Meig. Dipt.* vi. 68, 11. *Hydrina fuliginosa? Desv. Essai Myod.* 793, 8. *Hydrillia argyria? Desv. Essai Myod.* 793, 11. *H. albiceps, Macq. Hist. Nat. Dipt.* ii. 526, 15. *Hal. Ann. Nat. Hist.* iii. 403, 10.

a. England. Presented by F. Walker, Esq.

NOTIPHILA erythrostoma, *Meig. Dipt.* vi. 69, 14. *Hydrellia erythrostoma, Macq. Hist. Nat. Dipt.* ii. 526, 16. *Hal. Ann. Nat. Hist.* iii. 403, 11.

a. England. Presented by F. Walker, Esq.

Group Atissa, *Hal. Ann. Nat. Hist.* iii. 404.

Group Glenanthe, *Hal. Ann. Nat. Hist.* iii. 404.

NOTIPHILA nigriceps, *Meig. Dipt.* vi. 67, 7. *Hydrellia brunificies?* *Desv. Essai Myod.* 792, 7. *H. nigriceps, Macq. Hist. Nat. Dipt.* ii. 523, 2.

a. England. Presented by F. Walker, Esq.

NOTIPHILA leucostoma, *Meig. Dipt.* vi. 68, 12, *pl.* 58, *f.* 12. *Hal. Ann. Nat. Hist.* iii. 223, 8. *Hydrellia leucostoma, Macq. Hist. Nat. Dipt.* ii. 524, 7. *Meig. Dipt.* vii. 373, 11. *Psilopa leucostoma, Zeit. Dipt. Scand.* v. 1936, 4.

a. England. Presented by F. Walker, Esq.

Group Discocerina, *Macq.*

NOTIPHILA calceata, *Meig. Dipt.* vi. 69, 16. *Hal. Ann. Nat. Hist.* iii. 224, 10.

a. England. Presented by F. Walker, Esq.

NOTIPHILA ——— ?

a. Clermont, Auvergne. Presented by the Entomological Club.

NOTIPHILA obscurella? *Fall. Act. Holm.* 1813, 251. *Hydromyz.* 10. *Meig. Dipt.* vi. 73, 29. *Hal. Ann. Nat. Hist.* iii. 224, 9. *N. nigrina, Meig. Dipt.* vi. 69, 17. *Zett. Dipt. Scand.* v. 1887, 26. *Hydrellia nigrina, Macq. Hist. Nat. Dipt.* ii. 524, 3. *Meig. Dipt.* vii. 373, 14. *Psilopa, Stenh. Monogr.* 258, 6.

a. England. Presented by F. Walker, Esq.

NOTIPHILA glabra, *Meig. Dipt.* vi. 69, 15. *Hal. Ann. Nat. Hist.* iii. 224, 12. *Discocerina glabra, Macq. Hist. Nat. Dipt.* ii. 528, 4.

a. England. Presented by F. Walker, Esq.

Group Hecamede, *Haliday, Ann. Nat. Hist.* iii. 224.

NOTIPHILA albicans, *Meig. Dipt.* vi. 65, 3. *Macq. Hist. Nat. Dipt.* ii. 522, 6. *Hal. Ann. Nat. Hist.* iii. 224, 13.

a. England. Presented by F. Walker, Esq.

Group *Psilopa*, *Fallen.*

*NOTIPHILA madizans*, *Fall. Act. Holm.* 1813, 252, 8. *Meig. Dipt.* vi. 74, 32. *Hal. Ent. Mag.* i. 178. *Ann. Nat. Hist.* iii. 223, 6. *N. nigella*, *Meig. Dipt.* vi. 72, 26. *Psilopa madizans*, *Fall. Hydrom.* 7, 2. *Zett. Ins. Lapp.* 718, 1. *Stenh. Monogr.* 263, 11. *Zett. Dipt. Scand.* v. 1937, 5. *Trimerina madizans*, *Macq. Hist. Nat. Dipt.* ii. 529, 2. *Hydrellia nigella*, *Meig. Dipt.* vii. 373, 20.

a. England. Presented by F. Walker, Esq.

c

\* Group *Hygrella*, *Haliday.*

*NOTIPHILA nitidula*, *Fall. Act. Holm.* 1813, 252. *Meig. Dipt.* vi. 75, 34. *Hal. Ann. Nat. Hist.* iii. 223, 7. *Psilopa nitidula*, *Fall. Act. Holm.* 1813, 252, 9. *Hydrom.* 7, 4. *Zett. Ins. Lapp.* 719, 2. *Dipt. Scand.* v. 1932, 1. *Sten. Mon. Ephyd.* 261, 8. *Notiphila compta*, *Meig. Dipt.* vi. 68, 13. *Hydrellia compta*, *Macq. Hist. Nat. Dipt.* ii. 524, 8. *Keratocera viridescens?* *Desv. Essai Myod.* 790, 10.

a. England. Presented by F. Walker, Esq.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*NOTIPHILA smaragdi*, n. s., fem. *Viridis, aneo varia, capite nigro, palpis antennis pedibusque nigris, tarsis basi tibiisque posterioribus piceis, alis limpidis ad costam subfulvis.*

Body bright green, brassy here and there, clothed with short black hairs: head and chest beset with a few black bristles: head black; epistoma not prominent: eyes red; fore part rather flat, its facets a little larger than those elsewhere: sucker and palpi black; feelers black, nearly as long as the face; third joint linear, rounded at the tip, more than twice the length of the second; bristle downy, almost filiform, nearly twice the length of the third joint; abdomen obconical, not longer than the chest: legs black, beset with black bristles; feet towards the base and four hind shanks pitchy; wings colourless, slightly tawny along the fore border; wing-ribs and veins pale tawny; longitudinal veins straight, first widened towards the tip; middle cross-vein very short; lower cross-vein oblique, slightly curved inward, parted by more than twice its length from the middle cross-vein, by more than thrice its length from the end of the fourth longitudinal vein, and by less than its length from the end of the

fifth longitudinal vein; poisers tawny; scales colourless, small. Length of the body 1—1½ line; of the wings 2—2½ lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

*Obs.*—The two following species do not belong to the preceding group.

NOTIPHILA repleta, n.s., mas. *Ferruginea, abdomine nigro fasciis canis ornato, palpis nigris, antennis pedibusque ferrugineis, alis fuscis quinque maculatis ad costam cinereo-fulvis.*

Body clothed with short black hairs: head and chest beset with black bristles; head bright ferruginous; epistoma not prominent: eyes red; all the facets very small: sucker and palpi black: feelers dark ferruginous, much shorter than the face; third joint longer than the second; bristle black, feathered on both sides with rather long hairs, full thrice the length of the third joint: chest dark ferruginous; abdomen black, shining, a little longer and narrower than the chest; a hoary band on the hind border of each segment: legs ferruginous, beset with black hairs and bristles; claws black: wings brown, grayish tawny along the fore border, adorned with five colourless spots, one on the hind border near the base, two in the disk, the upper one consisting of three spots joined together, and two near the tip; wing-ribs and veins black, longitudinal veins straight; middle cross-vein very short; lower cross-vein with two very slight curves, (the upper inward, the lower outward), parted by much more than twice its length from the middle cross-vein, by near thrice its length from the end of the fourth longitudinal vein, and by full half its length from the end of the fifth longitudinal vein. Length of the body 1½ line; of the wings 2½ lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

NOTIPHILA producta, n.s. *Picea, angusta, thorace ferrugineo vittis tribus canis, palpis antennisque nigris, pedibus piceis, alis cinereis, venis fusco limbatis.*

Allied to *Diastata*. Body rather narrow, pitchy, clothed with very short black hairs: head and chest beset with black bristles: head somewhat hoary in front: eyes red; all the facets very small: sucker, palpi, and feelers black: chest dark ferruginous, adorned with three indistinct hoary stripes: abdomen shining, spindle-shaped, a little longer than the chest: legs pitchy, clothed with very short hairs; claws black; wings gray, slightly notched at the end of the first longitudinal vein, brown along the borders of the veins; wing-ribs and veins black; longitudinal veins straight, with the ex-

ception of the fifth, which forms a slightly obtuse angle at the junction with the lower cross-vein, the latter is nearly upright, hardly curved outward, parted by thrice its length from the middle cross-vein, by four times its length from the end of the fourth longitudinal vein, and by less than its length from the end of the fifth longitudinal vein; poisers pitchy. Length of the body  $\frac{7}{8}$  lines; of the wings  $1\frac{1}{2}$  line.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

Group Nupharia, *Desv. Essai Myod.* 785.

### DISCOMYZA, Meigen.

DISCOMYZA incurva, *Meig. Dipt.* vi. 76, pl. 58, f. 14—17. *Macq. Hist. Nat. Dipt.* ii. 529, pl. 21, f. 13. *Stenh. Monogr.* 265, 1. *Psilopa incurva*, *Fall. Hydrom.* 6, 1. *Zett. Dipt. Scand.* v. 1941, 7. *Notiphila incurva*, *Hal. Ann. Nat. Hist.* iii. 223, 5.

- a. England. Presented by F. Walker, Esq.

Group Dryxo, *Desv. Essai Myod.* 787.

### OCHTHERA, Latreille.

OCHTHERA Mantis, *Latr. Hist. Nat.* xiv. 391. *Gen. Crust.* iv. 347, pl. 15, f. 10. *Meig. Dipt.* vi. 78, pl. 58, f. 18—21. *Macq. Hist. Nat. Dipt.* ii. 519, pl. 21, f. 7. *Hal. Ann. Nat. Hist.* iii. 220, 1. *Loew, Ent. Zeit. Stett.* viii. 371, 1. *O. manicata*, *Fall. Kongl. Vet. Acad. Handl.* 1813, 244. *Desv. Essai Myod.* 787, 1. *Musca manicata*, *Fabr. Ent. Syst.* iv. 334. *M. Mantis*, *De Geer, Mém.* vi. 143, pl. 8, f. 15, 16. *Tephritis manicata*, *Fabr. Syst. Antl.* 323.

- a. England.

- b. Ireland. Presented by F. Walker, Esq.

- c. ———? From Mr. Children's collection.

OCHTHERA empidiformis? *Say, Journ. Acad. Philad.* iii. 99. *Wied. Auss. Zweif.* ii. 446.

- a. Florida. Presented by E. Doubleday, Esq.

EPHYDRA, *Fallen.*Group I. Hydrina, *Desv. Essai Myod.* 794.Div. 1. *Hal. Ann. Nat. Hist.* iii. 405.

- EPHYDRA picta, *Meig. Dipt.* vi. 125, 30. *Hal. Ann. Nat. Hist.* iii. 405, 1. *Notiphila picta*, *Fall. Act. Holm.* 1813, 254, 12. *Hydrom.* 11, 13. *Stenh. Monogr.* 213, 37. *Zett. Dipt. Scand.* v. 1913, 46. *N. pullula*, *Fall. Hydrom.* 11, 10.  
*a.* England. Presented by F. Walker, Esq.

Div. 2. *Hal. Ann. Nat. Hist.* iii. 405.

- EPHYDRA punctato-nervosa, *Meig. Dipt.* vi. 123, 24. *Hal. Ann. Nat. Hist.* iii. 405, 2. *Notiphila punctato-nervosa*, *Fall. Act. Holm.* 1813, 254, 13. *Hydromyz.* 12, 14. *Stenh. Monogr.* 247, 41. *Zett. Dipt. Scand.* v. 1921, 51.  
*a.* England. Presented by F. Walker, Esq.

- EPHYDRA flavipes, *Meig. Dipt.* vi. 123, 25. *Hal. Ann. Nat. Hist.* iii. 405, 3. *Notiphila flavipes*, *Fall. Hydromyz.* 12, 15. *Stenh. Monogr.* 244, 38, *f.* 30. *Zett. Dipt. Scand.* v. 1916, 48.  
*a.* England. Presented by F. Walker, Esq.

- EPHYDRA stictica, *Meig. Dipt.* vi. 121, 21. *Macq. Hist. Nat. Dipt.* ii. 539, 14. *Hal. Ann. Nat. Hist.* iii. 405, 4.  
*a.* England. Presented by F. Walker, Esq.

- EPHYDRA interstincta, *Meig. Dipt. Europ.* vi. 122, 23? *Macq. Hist. Nat. Dipt.* ii. 539, 16? *Hal. Ann. Nat. Hist.* iii. 405, 5. *Notiphila interstincta*, *Fall. Act. Holm.* 1813, 254, 16. *Zett. Dipt. Scand.* v. 1917, 50. *Hydrom.* 12, 16. *Stenh. Monogr.* 246, 40? *Hydrina maculipennis*, *Desv. Essai Myod.* 795, 5.  
*a.* England. Presented by F. Walker, Esq.

- EPHYDRA posticata, *Meig. Dipt.* vi. 124, 27. *Macq. Hist. Nat. Dipt.* ii. 539, 17. *Hal. Ann. Nat. Hist.* iii. 406, 7. *Notiphila nigricauda*? *Stenh. Monogr. Ephyd.* 248, 42. *Zett. Dipt. Scand.* v. 1923, 52.  
*a.* England. Presented by F. Walker, Esq.



Group II. Hyadina, *Hal. Ann. Nat. Hist.* iii. 406.

*EPHYDRA guttata*, *Meig. Dipt.* vi. 125. *Hal. Ann. Nat. Hist.* iii. 406, 8. *E. nitida*, *Macq. Hist. Nat. Dipt.* ii. 539. *Notiphila guttata*, *Fall. Act. Holm.* 1813, 253, 11. *Hydromyz.* 11, 12. *Zett. Ins. Lapp.* 718, 7. *Stenh. Monogr.* 239, 34, var. a., f. 28. *Zett. Dipt. Scand.* v. 1914, 47. *Hydrina vernalis*, *Desv. Essai Myod.* 795, 1.

a. England. Presented by F. Walker, Esq.

Group III. Axysta, *Hal. Ann. Nat. Hist.* iii. 406.Group IV. Pelina, *Hal. Ann. Nat. Hist.* iii. 407.

*EPHYDRA ænea*, *Meig. Dipt.* vi. 124, 29. *Hal. Ann. Nat. Hist.* iii. 407, 11. *E. glabricula*, *Meig. Dipt.* vi. 121, 19. *Macq. Hist. Nat. Dipt.* ii. 538, 11. *Notiphila ænea*, *Fall. Act. Holm.* 1813, 253, 10. *Hydromyz.* 11, 11. *Stenh. Monogr. Ephyd.* 209, 12. *Zett. Dipt. Scand.* v. 1926, 54.

a. England. Presented by F. Walker, Esq.

Group V. Napæa, *Desv. Essai Myod.* 799.Div. 1. *Hal. Ann. Nat. Hist.* iii. 407.

*EPHYDRA coarctata*, *Fall. Act. Holm.* 1813, 247. *Hydromyz.* 4, 4. *Meig. Dipt.* vi. 116, 7. *Hal. Ann. Nat. Hist.* iii. 407, 12. *Stenh. Monogr. Ephyd.* 189, 16. *Zett. Dipt. Scand.* v. 1821, 8. *E. rufitarsis*, *Macq. Hist. Nat. Dipt.* ii. 536, 3. pl. 22, f. 2. *Napæa stagnicola major*, *Desv. Essai Myod.* 800.

a. England. Presented by F. Walker, Esq.

*EPHYDRA littoralis*, *Meig. Dipt. Europ.* vi. 116, 6, pl. 60, f. 8. *Macq. Hist. Nat. Dipt.* ii. 536, 2. *Hal. Ann. Nat. Hist.* iii. 407. *Stenh. Monogr.* 188, 15. *Zett. Dipt. Scand.* v. 1824, 10. *Napæa stagnicola?* *Desv. Essai Myod.* 799, 1.

a. ———? Presented by F. Walker, Esq.

*EPHYDRA 4-punctata*, *Meig. Dipt.* vi. 107, 8. *Macq. Hist. Nat. Dipt.* ii. 536, 4.

a. England. Presented by F. Walker, Esq.

b. Alten. Presented by F. Walker, Esq.

Div. 2. *Hal. Ann. Nat. Hist.* iii. 407.

*EPHYDRA aquila*, *Fall. Hydromyz.* 4, 3. *Meig. Dipt.* vi. 117, 10.  
*Macq. Hist. Nat. Dipt.* ii. 537, 6. *Hal. Ann. Nat. Hist.* iii.  
 407, 14. *Zett. Ins. Lapp.* 716, 3. *Stenh. Monogr.* 187, 14.  
*Zett. Dipt. Scand.* v. 1819, 7.

a. England. Presented by F. Walker, Esq.

*EPHYDRA fossarum*, *Hal. Ent. Mag.* i. 175. *Ann. Nat. Hist.* iii.  
 407, 15.

a. England. Presented by F. Walker, Esq.

Group VI. *Ilythea*, *Hal. Ann. Nat. Hist.* iii. 408.

*EPHYDRA spilota*, *Hal. Curt. Brit. Ent.* 413. *Ann. Nat. Hist.* iii.  
 408, 18. *Curt. Brit. Ent.* 413.

a. Alten. Presented by F. Walker, Esq.

Group VII. *Cænia*, *Desv. Essai Myod.* 800.Div. 1. *Hal. Ann. Nat. Hist.* iii. 408.

*EPHYDRA palustris*, *Fall. Hydromyz.* 4, 2. *Meig. Dipt.* vi. 115, 2.  
*Hal. Ann. Nat. Hist.* iii. 408, 20. *Zett. Ins. Lapp.* 716, 2.  
*Stenh. Monogr.* 172, 4. *Zett. Dipt. Scand.* v. 1815, 4. *Cæ-*  
*nia caricicola*, *Desv. Essai Myod.* 800, 1. *C. palustris*, *Macq.*  
*Hist. Nat. Dipt.* ii. 530, 1.

a. England. Presented by F. Walker, Esq.

*EPHYDRA obscura*, *Meig. Dipt.* vi. 115, 3. *Cænia obscura*, *Macq.*  
*Hist. Nat. Dipt.* ii. 530, 2.

a. England. Presented by F. Walker, Esq.

Div. 2. *Hal. Ann. Nat. Hist.* iii. 400.

*EPHYDRA defecta*, *Hal. Ent. Mag.* i. 174. *Ann. Nat. Hist.* iii.  
 408, 21.

a. England. Presented by F. Walker, Esq.

Group VIII. *Scatella*, *Desv. Essai Myod.* 801.

*EPHYDRA æstuans*, *Hal. Ent. Mag.* i. 176. *Ann. Nat. Hist.* iii.  
 409, 25.

a. England. Presented by F. Walker, Esq.

b. Karasuwandra, Lapland. Presented by F. Walker, Esq.

*EPHYDRA stagnalis*, *Fall. Act. Holm.* 1813, 248. *Hydromyz.* 5, 5. *Meig. Dipt.* vi. 118, 12. *Macq. Hist. Nat. Dipt.* ii. 537, 7. *Zett. Ins. Lapp.* 716, 4. *Stenh. Monogr.* 178, 8. *Zett. Dipt. Scand.* v. 1827, 13. *E. buccata*, *Hal. Ann. Nat. Hist.* iii. 409, 26. *Scatella buccata*, *Desv. Essai Myod.* 801, 1.

a. England. Presented by F. Walker, Esq.

b. Haparanda. Presented by F. Walker, Esq.

*EPHYDRA lutosa*, *Hal. Ent. Mag.* i. 176. *Ann. Nat. Hist.* iii. 409, 27.

a. England. Presented by F. Walker, Esq.

*EPHYDRA noctula*, *Meig. Dipt.* vi. 119, 14. *Macq. Hist. Nat. Dipt.* ii. 537, 8. *Hal. Ann. Nat. Hist.* iii. 409, 29. *Zett. Dipt. Scand.* v. 1844, 25?

a. England. Presented by F. Walker, Esq.

b. Haparanda. Presented by F. Walker, Esq.

c. Alten. Presented by F. Walker, Esq.

*EPHYDRA quadrata*, *Fall. Hydromyz.* 5, 6. *Meig. Dipt.* vi. 119, 15. *Macq. Hist. Nat. Dipt.* ii. 538, 9. *Hal. Ann. Nat. Hist.* iii. 410, 31. *Zett. Ins. Lapp.* 716, 5. *Stenh. Monogr.* 182, 12, var. a. *Zett. Dipt. Scand.* v. 1840, 23. *Notiphila quadrata*, *Fall. Act. Holm.* 1813, 255. *Ephydra graminum*, *Hal. Ent. Mag.* i. 410, 33.

a. England. Presented by F. Walker, Esq.

b. Haparanda. Presented by F. Walker, Esq.

*EPHYDRA lacustris*, *Meig. Dipt.* vi. 118, 11.

a. England. Presented by F. Walker, Esq.

b. France.

c. Upsal. Presented by F. Walker, Esq.

d. Haparanda. Presented by F. Walker, Esq.

*EPHYDRA quadriguttata*, *Meig. Dipt.* vi. 120, 16. *Macq. Hist. Nat. Dipt.* ii. 538, 10. *Hardy, Zoologist*, 2099.

a. England. Presented by F. Walker, Esq.

#### Group IX. *Teichomyza*, *Macquart*.

*EPHYDRA fusca*, *Hal. Ann. Nat. Hist.* iii. 410, 32. *Teichomyza fusca*, *Macq. Hist. Nat. Dipt.* ii. 535, 1, pl. 22, f. 1.

a. England. Presented by F. Walker, Esq.

b. Belgium. From Mr. Walker's collection.

Group X. Ephydra, *Hal. Ann. Nat. Hist.* iii. 410.

- EPHYDRA riparia, *Fall. Act. Holm.* 1813, 246. *Hydromyz.* 3, 1. *Meig. Dipt.* vi. 117, 9. *Macq. Hist. Nat. Dipt.* ii. 537, 5. *Hal. Ann. Nat. Hist.* iii. 410, 33. *Zett. Ins. Lapp.* 715, var. b. *Stenh. Monogr.* 169, 2. *Zett. Dipt. Scand.* v. 1807, 1. *E. albula*, *Meig. Dipt.* vi. 115, 4, fem.? *E. salinarum*, *Bouché, Naturg. Ins.* i. 99, pl. 6. f. 13—14.  
a. England. Presented by F. Walker, Esq.

Group XI. Canace, *Hal. Ann. Nat. Hist.* iii. 411. •

- EPHYDRA nasica, *Hal. Ann. Nat. Hist.* iii. 411, 35.  
a. England. Presented by F. Walker, Esq.

*Obs.*—The following species of Ephydra are not arranged according to the preceding groups.

- EPHYDRA glauca, *Meig. Dipt.* vi. 120, 18.  
a. England. Presented by F. Walker, Esq.

- EPHYDRA glabricula, *Meig. Dipt.* vi. 121, 19. *Macq. Hist. Nat. Dipt.* ii. 538, 11.  
a. England. Presented by F. Walker, Esq.

- EPHYDRA melanostoma, *Meig. Dipt.* vi. 123, 26.  
a. England. Presented by F. Walker, Esq.

- EPHYDRA picea, n. s., fem. *Fusca, abdomine piceo, palpis antennis pedibusque nigris, alis fuscis maculis quatuor limpidis unaque picea ornatis.*

Body dark brown: head and chest beset with black bristles: eyes pitchy; sucker, palpi, and feelers black; third joint of the feelers conical, longer than the second; bristle stout, bare, tapering, near thrice the length of the third joint: abdomen pitchy, elliptical, flat, a little longer than the chest: legs black; foot-cushions tawny: wings dark brown; the disk adorned with four colourless spots; a small pitchy spot at the tip of the first longitudinal vein; wing-ribs and veins black; tip of the second longitudinal vein not curved upward; poisers tawny. Length of the body 1 line; of the wings 2 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*EPHYDRA oscitans*, n. s., Barnston's MSS. *Fusca, subtus cana, palpis antennisque nigris, pedibus nigro-cinereis, alarum fuscarum maculis plurimis limpidis ad costam quadratis.*

Body hoary beneath: head and chest dark brown, beset with black bristles: eyes pitchy: sucker, palpi, and feelers black; third joint of the feelers conical, longer than the second; bristle bare thrice the length of the third joint: legs black, tinged with gray: wings dark brown, adorned with numerous colourless spots, which along the fore border are more distinct than elsewhere, and of a nearly square shape; wing-ribs and veins black; poisers pitchy. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*EPHYDRA octo-notata*, Barnston's MSS. *Fusca, facie lateribus albidis, thorace vittis duabus canis ornato, palpis piceis, antennis nigris, pedibus nigro-cinereis, alis cinereis sublimpido quadrimaculatis.*

Body brown: head and chest beset with a few bristles: sides of the face whitish: eyes red; facets of the fore part a little larger than those elsewhere: sucker and palpi pitchy: feelers black, shorter than the face; third joint conical, a little longer than the second; bristle stout, downy, tapering, rather more than twice the length of the third joint: chest slightly metallic, adorned with two hoary stripes: legs black, tinged with gray; under side of feet and of fore shanks clothed with ferruginous down: wings dark gray, each adorned with four almost colourless spots, one beneath the second longitudinal vein, and very near another which is beyond the middle cross-vein; the third and the fourth are on either side of the lower cross-vein; wing-ribs and veins black; tip of the second longitudinal vein curved upward to the fore border; fifth longitudinal vein slightly curved upward till it joins the lower cross-vein, whence it proceeds to the hind border, forming a very obtuse angle; lower cross-vein straight, upright, parted by four times its length from the middle cross-vein and from the end of the fourth longitudinal vein, and by more than half its length from the end of the fifth longitudinal vein; poisers pitchy. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*EPHYDRA striata*, Barnston's MSS. *Fusca, thorace vittis quinque canis ornato, abdomine pedibusque nigro-cinereis, palpis antennisque nigris, alis fuscis limpido decem-maculatis.*

Head and chest dark brown, beset with a few black bristles: eyes pitchy: sucker, palpi, and feelers black; third joint of the feelers conical, longer than the second; bristle bare, tapering, more than twice the length of the third joint: five interrupted hoary stripes on the chest; a hoary spot on the tip of the scutcheon: abdomen obconical, black, tinged with gray, thinly clothed with black hairs, a little shorter and much narrower than the chest: legs black, tinged with gray; under side of feet and of fore shanks clothed with ferruginous down; wings dark brown, adorned with ten colourless spots, two between the second and the third longitudinal veins, the first of these is much more distinct than any of the other spots; three between the third and the fourth longitudinal veins; two on the near side and two beyond the lower cross-vein, one near the hind border; wing-ribs and veins black; tip of the second longitudinal vein not curved upward; fifth longitudinal vein straight till it joins the lower cross-vein, whence it proceeds to the hind border, forming an obtuse angle; lower cross-vein straight, slightly oblique, parted by much more than twice its length from the middle cross-vein, by more than thrice its length from the end of the fourth longitudinal vein, and by a little less than its length from the end of the fifth longitudinal vein; poisers pitchy. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

Group Saphæa, Desv. *Essai Myod.* 796.

*DROSOPHILA*, Fallen.

*DROSOPHILA cellaris*, Macq. *Hist. Nat. Dipt.* ii. 549, 2. *D. funebris*, Fall. *Geomyz. Meig. Dipt.* vi. 82, 2. *Zett. Ins. Lapp.* 775, 1. *Musca cellaris*, Linn. *Syst. Nat.* ii. 993. *Faun. Suec.* 1848. *Gmel. Ed. Syst. Nat.* i. 5, 2848, 87. *Fabr. Ent. Syst.* iv. 332, 85. *Syst. Antl.* 305, 108. *Berk. Syn.* i. 165. *Stew. El.* ii. 260. *Turt.* iii. 609. *Musca*, &c., *Réaumur. Ins. v. pl.* 8, f. 7—14. *Geoff. Ins.* ii. 536, 85. *M. funebris*, *Fabr. Ent. Syst.* iv. 323, 48. *Syst. Antl.* 299, 76. *Gmel. Ed. Syst. Nat.* i. 5, 2842, 190. *M. erythrophthalma*, *Hellw. Panz. Faun. Germ.* 17, 24. *Oinopota cellaris*, *Kirby. Mocillus cellarius*, *Sam. Comp.* 299.

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

d. Kollare. Presented by the Entomological Club.

e. Haparanda. Presented by the Entomological Club.

f. Nova Scotia. From Lieut. Redman's collection.

*DROSOPHILA phalerata*, Meig. *Dipt.* vi. 83, 3, pl. 59, f. 3. Macq. *Hist. Nat. Dipt.* ii. 549, 3.

a. England. Presented by F. Walker, Esq.

*DROSOPHILA fenestrarum*, Fall. *Geomyz.* 6, 4. Meig. *Dipt.* vi. 83, 4. Macq. *Hist. Nat. Dipt.* ii. 549, 4. Zett. *Ins. Lapp.* 775, 2.

a. England. Presented by F. Walker, Esq.

*DROSOPHILA transversa*, Megerle, Meig. *Dipt.* vi. 2. Macq. *Hist. Nat. Dipt.* ii. 549, 5. Zett. *Ins. Lapp.* 776, 3.

a. England.

*DROSOPHILA virginea*, Meig. *Dipt.* vi. 84, 6.

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

d. Stockholm. Presented by the Entomological Club.

*DROSOPHILA melanogaster*, Meig. *Dipt.* vi. 85, 9.

a. England. Presented by F. Walker, Esq.

b. France.

*DROSOPHILA tristis*, Fall. *Geomyz.* 7, 7. Meig. *Dipt.* vi. 86, 12. Macq. *Hist. Nat. Dipt.* ii. 550, 8.

a. England. Presented by F. Walker, Esq.

*DROSOPHILA graminum*, Fall. *Geom.* 8, 11. Meig. *Dipt.* vi. 86, 13. Macq. *Hist. Nat. Dipt.* ii. 550, 9. Zett. *Ins. Lapp.* 777, 9.

a. England. Presented by F. Walker, Esq.

*DROSOPHILA immatura*, n. s. *Fulva*, *abdominis apice piceo*, *palpis antennisque fulvis*, *pedibus flavis*, *alis limpidis*.

Body pale tawny, clothed with black hairs: head and chest beset with black bristles: eyes red; sucker, palpi and feelers tawny; feeler-bristle black: abdomen obconical, darker and narrower, but not longer than the chest, pitchy towards the tip: legs yellow: wings colourless: wing-ribs and veins tawny: longitudinal veins straight; fifth vein slightly curved downward along its whole length, not forming an angle at its junction with the lower cross-vein; the latter

is straight, nearly upright, far from the border of the wing, and indicative of feeble flight, parted by nearly thrice its length from the middle cross-vein, by six times its length from the end of the fourth longitudinal vein; and by thrice its length from the end of the fifth longitudinal vein. Length of the body 1 line; of the wings 2 lines.

*DROSOPHILA debilis*, n. s., fem. *Fulva*, abdomine ferrugineo, pedibus fulvis, alis subcinereis.

Body tawny, thickly clothed with black hairs; head wanting: abdomen ferruginous, obconical, a little longer than the chest; legs tawny: wings slightly gray; wing-ribs and veins tawny; third longitudinal vein slightly curved upward after its junction with the middle cross-vein; fifth longitudinal vein slightly curved downward after its junction with the lower cross-vein, where it does not form an angle; lower cross-vein straight, nearly upright, parted by a little more than twice its length from the middle cross-vein, by much more than thrice its length from the end of the fourth longitudinal vein, and by a little more than its length from the end of the fifth longitudinal vein; poisers tawny. Length of the body 1 line; of the wings  $2\frac{1}{2}$  lines.

*a.* Sierra Leone. Presented by the Rev. D. F. Morgan.

*DROSOPHILA varia*, n. s., fem. *Fulva*, abdomine maculis octo fasciisque una nigris ornato, ventre nigro, pedibus flavis, alis limpide fusco apice maculatis.

Body tawny: head wanting: chest bright tawny, beset with a few black bristles; breast paler: abdomen obconical, darker and much narrower, but not longer than the chest, adorned with six black spots, three in front and three behind a black band which traverses the middle; there is also an indistinct black spot on each side of the tip; underside mostly black: legs pale yellow: wings colourless, adorned with a brown spot at the tip of the second longitudinal vein; wing-ribs and veins tawny; longitudinal veins straight; lower cross-vein upright, hardly inclined inward, parted by much more than twice its length from the middle cross-vein, by full four times its length from the end of the fourth longitudinal vein, and by a little more than its length from the end of the fifth longitudinal vein; poisers tawny. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

*a.* Georgia. From Mr. Abbot's collection.



*DROSOPHILA guttifera*, n. s., fem. *Fulva, capite subtus flavo, thorace subvittato, abdomine maculis piceis quadrivittato, palpis antennisque fulvis, pedibus flavis, alis limpidis fusco quatuordecem maculatis antice subfulvis postice subcinereis.*

Body tawny, shining, paler beneath : head and chest beset with a few black bristles : head pale tawny; not shining, yellow beneath : eyes red : sucker, palpi, and feelers tawny ; third feeler-joint conical, longer than the second ; bristle black, slender, feathered to the tip on both sides with long black hairs, full thrice the length of the third joint : chest indistinctly striped : abdomen spindle-shaped, a little longer and narrower than the chest, adorned with four rows, and towards the tip with five rows of pitchy spots, thinly clothed with black hairs : legs yellow ; claws black : wings colourless, tinged with tawny along the fore border, slightly gray along the hind border, adorned with fourteen small brown spots ; one at the tip of the second longitudinal vein ; seven on the third vein ; three on the fourth vein, the first of them joining the third on the third vein ; three on the fifth vein ; wing-ribs and veins tawny ; longitudinal veins nearly straight : lower cross-vein oblique, slightly curved inward, parted nearly thrice its length from the middle cross-vein, by more than four times its length from the end of the fourth longitudinal vein, and by more than its length from the end of the fifth longitudinal vein ; poisers tawny. Length of the body  $\frac{3}{4}$  line ; of the wings  $1\frac{1}{2}$  line.

a. Florida. Presented by E. Doubleday, Esq.

*DROSOPHILA colorata*, n. s. *Rufa, capite ferrugineo, thorace nigro trivittato, abdomine piceo fasciis fulvis ornato, palpis antennisque ferrugineis, harum articulo 3<sup>o</sup> piceo, pedibus fulvis, alis subcinereis ad costam fulvis.*

Head and chest beset with black bristles : head ferruginous : eyes pitchy : sucker, palpi, and feelers ferruginous : feelers shorter than the face ; third joint conical, pitchy, longer than the second ; bristle black, slender, feathered to the tip on both sides with a few long black hairs, more than twice the length of the third joint : chest dark red, adorned with three black stripes, the middle one darker than the side pair, which are interrupted : abdomen pitchy, elliptical, hardly longer than the chest ; hind borders of the segments tawny : legs tawny ; tips of the feet pitchy : wings slightly gray, tawny along the fore borders ; wing-ribs and veins dark tawny ; longitudinal veins straight ; lower cross-vein nearly straight and upright, slightly clouded with brown, parted by more than thrice its length from the middle cross-vein, by more than four times its length from the end of the fourth longitudinal vein, and by its length from

the end of the fifth longitudinal vein ; poisers yellow, tawny at the base. Length of the body  $1\frac{1}{2}$  line ; of the wings 3 lines.

a. New York. Presented by E. Doubleday, Esq.

*DROSOPHILA remota*, n. s. *Cervina, thorace postico pectoreque canis, antennis nigris, palpis pedibusque fulvis, femoribus piceis, tibiis posticis subarcuatis, alis subcinereis ad costam subfulvis.*

Body dark fawn colour : head and chest beset with black bristles : eyes red : sucker and palpi tawny : feelers black, shorter than the face ; third joint conical, longer than the second ; bristle slender, feathered to the tip with long hairs, more than twice the length of the third joint : breast and hind chest hoary : abdomen obconical, thickly clothed with black hairs, a little shorter and narrower than the chest : legs tawny ; clothed with short black hairs ; claws black ; thighs pitchy with tawny tips ; hind shanks slightly curved : wings slightly gray, with a tawny tinge, which is chiefly along the borders of the veins ; wing-ribs and veins tawny ; longitudinal veins straight ; fifth vein inclined to the hind border after its junction with the lower cross-vein, where it forms a very indistinct angle ; lower cross-vein nearly upright, very slightly inclined outward, parted by more than four times its length from the middle cross-vein and from the tip of the fourth longitudinal vein, and by its length from the tip of the fifth longitudinal vein ; poisers tawny. Length of the body  $1\frac{1}{2}$  line ; of the wings 4 lines.

a. Tristram da Cunha. From Dr. Leach's collection.

*DROSOPHILA flava*, Fall. *Geom.* 7, 10. *Meig. Dipt.* vi. 88, 20.

a. England. Presented by F. Walker, Esq.

Group Terenia, Desv. *Essai Myod.* 640.

Group Odinia, Desv. *Essai Myod.* 648.

### ASTEIA, Meigen.

*ASTEIA amæna*, Meig. *Dipt.* vi. 89, 1, pl. 59, f. 7. *Macq. Hist. Nat. Dipt.* ii. 620, 1.

a. England. Presented by F. Walker, Esq.

b. England.

OCHTHIPHILA, *Fallen.*

OCHTHIPHILA *aridella*, *Fall. Ochtid.* 10, 2. *Meig. Dipt.* vi. 92, 1.  
*Macq. Hist. Nat. Dipt.* ii. 545, 1. *Zett. Ins. Lapp.* 620, 4.  
*Dipt. Scand.* v. 1950, 6.

a. England. Presented by F. Walker, Esq.

b. Hammerfest. Presented by F. Walker, Esq.

OCHTHIPHILA *juncorum*, *Fall. Ochtid.* 9, 1. *Meig. Dipt.* vi. 92, 3,  
*pl.* 59, *f.* 11. *Macq. Hist. Nat. Dipt.* ii. 5452. *Zett. Ins. Lapp.*  
 719, 1. *Dipt. Scand.* v. 1945, 1.

a. England. Presented by F. Walker, Esq.

b. Haparanda. Presented by the Entomological Club.

Group *Estelia*, *Desv. Essai Myod.* 635.

DIASTATA, *Meigen.*

## Group I.

DIASTATA *punctum*, *Meig. Dipt.* vi. 98, 10. *Macq. Hist. Nat. Dipt.*  
 ii. 553, 7.

a. England.

DIASTATA *obscura*, *Meig. Dipt.* vi. 96, 3, *pl.* 59, *f.* 15. *Macq. Hist.*  
*Nat. Dipt.* ii. 552, 3. *Geomyza obscura*, *Fall. Geom.* 4, 6.  
*Zett. Ins. Lapp.* 774, 5.

a. England. Presented by F. Walker, Esq.

b. Hammerfest. Presented by F. Walker, Esq.

DIASTATA *tenuipes*, n. s., fem. *Picea, capite antico fulvo, thorace*  
*vittis quatuor fulvis, palpis antennisque piceis, pedibus fulvis, alis*  
*cinereis ad costam subfulvis, vena transversa fusco nebulosa.*

Body pitchy, shining: head and chest beset with black bristles: head tawny in front: eyes red: sucker, palpi, and feelers pitchy: feelers shorter than the face; third joint conical, longer than the second; bristle black, feathered with rather long hairs, more than twice the length of the third joint: chest with four indistinct dark tawny stripes: abdomen elliptical, thinly clothed with short black hairs, hardly longer than the chest: legs dark tawny, clothed with very short black hairs; claws black: wings dark gray with a tawny tinge on the fore border, clouded with brown on the lower cross-vein; wing-ribs and veins pitchy; longitudinal veins straight; fifth slightly curved towards the hind border, not forming an angle at its

junction with the lower cross-vein; the latter is upright, nearly straight, parted by nearly thrice its length from the middle cross-vein, by more than four times its length from the end of the fourth longitudinal vein, and by its length from the end of the fifth longitudinal vein; poisers pale yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*DIASTATA* ? *albicosta*, n. s., mas. *Picea, gracilis, capite subtus palpis pedibusque flavis, antennis nigris, alis fuscis angustis ad costam albis margine postico subcinereis.*

Body pitchy, linear, very narrow: head and chest beset with a few black bristles: head beneath, sucker and palpi yellow: eyes pitchy: feelers black, shorter than the face; third joint short; bristle slender, stout at the base, feathered to the tip with very short hairs, more than thrice the length of the third joint: abdomen much longer than the chest: legs yellow, slender: wings long, narrow, dark brown, white along the fore border till near the tip, grayish along the hind border: wing-ribs and veins pitchy; longitudinal veins straight; second vein waving along the whole length at first upward, then downward; fifth vein inclined to the hind border after its junction with the lower cross-vein where it does not from an angle; lower cross-vein slightly oblique, a little curved outward, parted by more than twice its length from the middle cross-vein, by eight times its length from the end of the fourth longitudinal vein, and by nearly twice its length from the end of the fifth longitudinal vein; poisers yellow. Length of the body 1 line; of the wings  $2\frac{1}{2}$  lines.

Presented by the Entomological Club.

Group 2. *Camilla*, *Haliday*, *Ann. Nat. Hist.* ii. 188.

*DIASTATA glabra*, *Hal. Ann. Nat. Hist.* ii. 188. *Drosophila glabra*, *Fall. Geom.* 8, 12. *Meig. Dipt.* vi. 85, 10. *Diastata wrata*, *Haliday, Curtis, Guide, App.* 281.

a. England. Presented by F. Walker, Esq.

*OPOMYZA, Fallen.*

*OPOMYZA germinationis*, *Fall. Opom.* 11, 1. *Meig. Dipt.* vi. 1. *Macq. Hist. Nat. Dipt.* ii. 555, 1. *Zett. Ins. Lapp.* 761, 1.

*Musca germinationis*, Linn. *Faun. Suec.* 1874. *Gmel. Ed. Syst. Nat.* i. 5, 2857, 122. *Fabr. Ent. Syst.* iv. 356, 183.

*Dacus germinationis*, *Fabr. Syst. Antl.* 278, 28.

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

*OPOMYZA florum*, *Meig. Dipt.* vi. 102, 2, pl. 59, f. 22. *Zett. Ins. Lapp.* 762, 3. *Musca florum*, *Fabr. Ent. Syst.* iv. 352, 164.

*Tephritis florum*, *Fabr. Syst. Antl.* 317, 3. *Geomyza punctella*, *Fall. Geom.* 11, 2.

a. England.

*OPOMYZA combinata*, var. ? *Meig. Dipt.* vi. 109, 18. *Musca combinata* ? *Fabr. Ent. Syst.* iv. 352, 163. *Gmel. Ed. Syst. Nat.* i. 5, 2855, 114. *M. germinationis* ? *Schrank, Ins. Austr.* 961. *Tephritis combinata* ? *Fabr. Syst. Antl.* 317, 2. *Geomyza combinata* ? *Fall. Geom.* 2, 1.

a. France.

*OPOMYZA tripunctata*, *Meig. Dipt.* vi. 110, 21. *Macq. Hist. Nat. Dipt.* ii. 558, 14. *Geomyza tripunctata*, *Fall. Geom.* 2, 2. *Zett. Ins. Lapp.* 774, 2.

a. England.

b. Upsal. Presented by the Entomological Club.

c. France.

*OPOMYZA maculata*, *Macq. Hist. Nat. Dipt.* ii. 558, 15.

a. England. Presented by F. Walker, Esq.

b. England.

*OPOMYZA guttipennis*, *Zett. Ins. Lapp.* 762, 4.

a. Lapland. Presented by the Entomological Club.

*OPOMYZA apicalis*, n. s., fem. *Ferruginea, capite subtus fulvo, abdomine supra piceo, palpis antennis pedibusque fulvis, alis limpidis apice fusco maculatis.*

Body pale ferruginous, shining : head and chest beset with very few black bristles : head pale tawny beneath : eyes red : sucker, palpi, and feelers pale tawny : feelers much shorter than the face ; third joint conical, longer than the second ; bristle slender, black, downy, tawny at the base, more than thrice the length of the third joint : abdomen oval, a little longer than the chest, pitchy above, except at the base : legs tawny ; claws black : wings colourless ; a brown spot at the tip between the second and third longitudinal

veins; wing-ribs tawny; veins pitchy, tawny towards the base: longitudinal veins straight; lower cross-vein nearly straight, almost upright, parted by more than twice its length from the middle cross-vein, by more than thrice its length from the end of the fourth longitudinal vein, and by less than half its length from the end of the fifth longitudinal vein; poisers whitish. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. New Zealand. Presented by Dr. Hooker.

*OPOMYZA quadrivitta*, n. s., fem. *Fulva, thorace vittis quatuor piceis, abdomine vitta fasciisque nigris ornato, palpis antennis pedibusque fulvis, alis subcinereis, costa venisque transversis fusco nebulosis.*

Body tawny: head and chest beset with stout black bristles: head whitish beneath: eyes pitchy: sucker, palpi, and feelers pale tawny: feelers a little shorter than the face: first and second joints beset with a few bristles; third conical, longer than the second; bristle black, feathered with hairs on both sides to the tip, about thrice the length of the third joint: chest adorned with four pitchy stripes: abdomen obconical, a little shorter and narrower than the chest, thinly clothed with black hairs, beset on each side with a few black bristles, adorned with a black stripe, and on the hind borders of the segments with black bands: legs tawny, beset with a few black hairs and bristles; hind thighs pitchy: wings slightly gray, brown for one-third of the breadth beneath the fore border and at the tip, the outline of the brown is irregular above the cross-veins, which are also clouded with brown; wing-ribs and veins pitchy; longitudinal veins straight; lower cross-vein straight, slightly oblique, parted by much more than its length from the middle cross-vein, by near thrice its length from the end of the fourth longitudinal vein, and by more than half its length from the end of the fifth longitudinal vein; poisers tawny. Length of the body  $1\frac{1}{2}$  line; of the wings  $3\frac{1}{2}$  lines.

a. Isle of France.

### MILICHIA, Meigen.

*MILICHIA speciosa*, Meig. *Dipt.* vi. 132, 1, pl. 60, f. 23—24. Loew, *Ent. Zeit. Stett.* 324.

a. France.

## LEUCOPIS, Meigen.

LEUCOPIS hirta, n. s., fem. *Cinerea, abdomine palpis antennis pedibusque nigris, alis cinereis margine antico convexo.*

Body gray, thick, broad: head and chest thickly beset with black bristles: eyes red: sucker, palpi, and feelers black: feelers much shorter than the face; third joint short, not much longer than the second; bristle slender, bare, much more than thrice the length of the third joint: abdomen obconical, flat, black, shining, a little longer and narrower than the chest, clothed with short black hairs, which are mostly on each side: legs black, stout: wings gray; fore border convex, with a deep notch at the end of the first longitudinal vein; wing-ribs and veins black; longitudinal veins straight; fifth curved towards the hind border, not forming an angle at its junction with the lower cross-vein; the latter is straight, upright, parted by thrice its length from the middle cross-vein, by more than thrice its length from the end of the fourth longitudinal vein, and by a little less than its length from the end of the fifth longitudinal vein; poisers black. Length of the body 1 line; of the wings 2 lines.

a. Haparanda. Presented by the Entomological Club.

LEUCOPIS? picea, n. s. *Picea, palpis antennisque nigris, pedibus fulvis, alis latis cinereis ad costam fuscis margine antico convexo.*

Body pitchy, shining: head and chest beset with a few black bristles: eyes red: sucker, palpi, and feelers black: abdomen obconical, a little longer and narrower than the chest: legs tawny: wings broad, dark gray, dark brown for one-third of the breadth beneath the fore border, which is convex; wing-ribs and veins black; third and fourth longitudinal veins approaching each other towards the tip; lower cross-vein parted by twice its length from the middle cross-vein, by more than thrice its length from the end of the fourth longitudinal vein, and by rather less than its length from the end of the fifth longitudinal vein; poisers tawny. Length of the body  $\frac{3}{4}$  line; of the wings  $1\frac{1}{2}$  line.

a. ———?

## GYMNOPIA, Fallen.

GYMNOPIA subsultans, Meig. Dipt. vi. 137, 1. Macq. Hist. Nat. Dipt. ii. 584, 1. Syrphus subsultans, Fabr. Ent. Syst. iv. 304, 96. Eristalis subsultans, Fabr. Syst. Antl. 246, 68.

a. England.

b. France.

c. Upsal. Presented by the Entomological Club.

d. ———? From Mr. Children's collection.

*GYMNOPA ænea*, *Fall. Oscinid.* 10, 1. *Meig. Dipt.* vi. 137, 2?  
*Macq. Hist. Nat. Dipt.* ii. 584, 2. *Zett. Ins. Lapp.* 783, 1.  
*Eristalis subsultans*? *Fabr. Syst. Antl.* 246, 68.

a. England.

*GYMNOPA glabra*, *Meig. Dipt.* vi. 137, 4. *Macq. Hist. Nat. Dipt.* ii.  
 584, 4. *Madiza glabra*, *Fall. Oscinid.* 9, 3. *Zett. Ins. Lapp.*  
 782, 2.

a. England. Presented by F. Walker, Esq.

b. France.

c. ———? From Mr. Children's collection

### CHLOROPS, *Meig.*

#### Div. A. *Meig.*

*CHLOROPS hypostigma*, *Meig. Dipt.* vi. 141, 2. *Macq. Hist. Nat.*  
*Dipt.* ii. 591, 2.

a. England. Presented by F. Walker, Esq.

*CHLOROPS nasuta*, *Meig. Dipt.* vi. 142, 5. *Macq. Hist. Nat. Dipt.*  
 ii. 592, 7. *Musca nasuta*, *Gmel. Ed. Syst. Nat.* i. 5, 2863,  
 304. *Schränk, Ins. Austr.* 966. *Musca*, &c., *Geoff. Ins.* ii.  
 537, 87. *Schell. Gen. Mouch. pl.* 4, f. 1. *M. lineata*, *Schränk,*  
*Faun. Boic.* iii. 2462. *M. umbelliferarum*, *Schränk, Faun.*  
*Boic.* iii. 2463. *Oscinis lineata*, *Fall. Oscinid.* 4, 2. *O. na-*  
*suta*, *Zett. Ins. Lapp.* 779, 1.

a. England. Presented by F. Walker, Esq.

b. France.

*CHLOROPS læta*, *Meig. Dipt.* vi. 143, 6. *Macq. Hist. Nat. Dipt.* ii.  
 592, 9. *Oscinis lineata*, var., *Fall. Oscinid.* 4, 2. *O. lineata*,  
*Zett. Ins. Lapp.* 779, 2.

a. England. Presented by F. Walker, Esq.

*CHLOROPS tæniopus*, *Meig. Dipt.* vi. 144, 9. *Macq. Hist. Nat.*  
*Dipt.* ii. 593, 13.

a. England. Presented by F. Walker, Esq.

b. France.

*CHLOROPS notata*, *Meig. Dipt.* vi. 144, 10.

a. England. Presented by F. Walker, Esq.

*CHLOROPS interrupta*, *Meig. Dipt.* vi. 145, 11. *Macq. Hist. Nat.*  
*Dipt.* ii. 593, 14.

a. Var.? France.



**CHLOROPS scalaris**, *Meig. Dipt. vi. 145, 12. Macq. Hist. Nat. Dipt. ii. 593, 15.*

*a.* England. Presented by F. Walker, Esq.

*b.* France.

**CHLOROPS speciosa**, *Meig. Dipt. vi. 146, 14. Macq. Hist. Nat. Dipt. ii. 594, 17.*

*a.* England. Presented by F. Walker, Esq.

*b.* France.

**CHLOROPS circumdata**, *Meig. Dipt. vi. 147, 17.*

*a.* England. Presented by F. Walker, Esq.

**CHLOROPS lineata**, *Meig. Dipt. vi. 149, 21. Macq. Hist. Nat. Dipt. ii. 595, 23. Musca lineata, Fabr. Sp. Ins. ii. 453, 95. Ent. Syst. iv. 356, 180. Gmel. Ed. Syst. Nat. i. 5, 2856, 243. Stew. El. ii. 260. M. pumilionis, Gmel. Ed. Syst. Nat. i. 5, 2849, 217. Oscinis lineata, Fabr. Syst. Antl. 215, 4. Latr. Gen. Crust. iv. 351. O. pumilionis, Fabr. Syst. Antl. 216, 6.*

*a.* England. Presented by F. Walker, Esq.

*b.* France.

**CHLOROPS cereris**, *Meig. Dipt. vi. 150, 23. Macq. Hist. Nat. Dipt. ii. 596, 28. Chlorops scutellatus, Panz. Faun. Germ. 104, 21. Oscinis cereris, Fall. Oscinid. 5, 3.*

*a.* England. Presented by F. Walker, Esq.

*b.* France.

**CHLOROPS messoria**, *Meig. Dipt. vi. 151, 24. Macq. Hist. Nat. Dipt. ii. 596, 29. Oscinis messoria, Fall. Oscinid. 5, 4. Zett. Ins. Lapp. 780, 6.*

*a.* England. Presented by F. Walker, Esq.

*b.* France.

**CHLOROPS tarsata**, *Meig. Dipt. vi. 151, 25. Macq. Hist. Nat. Dipt. ii. 597, 31. Oscinis tarsata, Fall. Oscinid. 5, 5.*

*a.* England. Presented by F. Walker, Esq.

**CHLOROPS frontella**, *Meig. Dipt. vi. 155, 36. Oscinis frontella, Fall. Oscinid. 7, 10.*

*a.* Var.? Stockholm. Presented by the Entomological C.

*CHLOROPS annulata*, Barnston's MSS. *Flava, verticis macula picea, peristomate nigro bimaculato, thoracis vittis tribus nigris subcinereis, pectore maculis quatuor piceis ornato, abdominis disco piceo segmentorum marginibus posticis flavis, antennis ferrugineis, palpis pedibusque fulvis, alis limpidis.*

Body yellow : crown adorned by a large triangular pitchy spot, which, with the exception of the hind border, is interrupted by two slender yellow streaks : eyes pitchy : sucker ferruginous : palpi tawny : a black spot on each side of the fore border of the peristoma : feelers ferruginous, nearly as long as the face, pitchy above and at the tips ; third joint nearly round, much deeper than the second and more than twice its length : disk of the chest black, the three usual stripes being so broad as to leave no space between them, with the exception of two yellow spots in front : two large shining nearly triangular pitchy spots on each side of the breast : abdomen oval, very little longer than the chest, tawny along each side, pitchy above, with the exception of the hind borders of the segments : legs dark tawny ; knees and tips of the shanks paler ; claws black ; wings colourless ; wing-ribs tawny ; veins black ; longitudinal veins straight ; lower cross-vein straight, slightly oblique, parted by more than twice its length from the middle cross-vein, by seven times its length from the end of the fourth longitudinal vein, and by more than twice its length from the end of the fifth longitudinal vein ; poisers white. Length of the body  $1\frac{1}{2}$  line ; of the wings  $2\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHLOROPS bistriata*, Barnston's MSS. *Flava, verticis macula thoracisque vittis tribus latis nigris, pectore vittis piceis et ferrugineis ornato, abdomine supra nigro, antennis ferrugineis, pedibus fulvis, alis limpidis.*

Body bright yellow, shining : a black spindle-shaped spot on the crown, extending from the hind head to the base of the feelers : eyes pitchy, convex ; facets rather large : sucker and palpi pale tawny : feelers ferruginous, a little shorter than the face, black above ; third joint nearly round, much deeper than the second and more than twice its length ; bristle black, bare, a little more than twice the length of the third joint : chest adorned with three very broad black stripes ; scutcheon yellow ; breast with two short pitchy stripes, which have between them two triangular ferruginous marks the outer sides of whose borders are pitchy : abdomen oval, not longer than the chest, black above : legs tawny ; feet pale ferruginous, tawny at the base ; claws black : wings colourless ; wing-ribs

tawny; veins pitchy; longitudinal veins straight; lower cross-vein oblique, straight, parted by less than twice its length from the middle cross-vein, by five times its length from the tip of the fourth longitudinal vein, and by twice its length from the tip of the fifth longitudinal vein; poisers white. Length of the body  $1\frac{1}{2}$  line; of the wings  $2\frac{1}{2}$  lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHLOROPS perflava*, Barnston's MSS. *Flava, verticis macula picea, thorace nigro trivittato, abdomine supra antennisque fulvis, palpis pedibusque flavis, alis limpidis.*

Body bright yellow: a triangular pitchy spot on the crown: eyes pitchy: sucker and palpi yellow: feelers tawny, much shorter than the face; third joint conical, much longer than the second, pitchy above and on the outer side; bristle black: chest adorned with three broad black stripes; the side pair shortened in front: abdomen oval, not longer than the chest, somewhat tawny above: legs yellow, thinly clothed with short pale hairs: wings colourless; wing-ribs tawny; veins pitchy, tawny towards the base; longitudinal veins straight; lower cross-vein straight, upright, parted by thrice its length from the middle cross-vein, by ten times its length from the end of the fourth longitudinal vein, and by four times its length from the end of the fifth longitudinal vein; poisers yellow. Length of the body 1 line; of the wings 2 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*CHLOROPS vicaria*, n. s., fem. *Fulva, verticis macula thoracisque vittis tribus nigris, scutello flavo, pectoris maculis nigris, abdominis disco piceo, palpis antennisque nigris, pedibus fulvis, alis limpidis.*

Body tawny, shining: a large black spot on the crown: eyes pitchy: palpi black: feelers black, shorter than the face: third joint nearly triangular, hardly longer than the second; bristle about twice the length of the third joint: chest adorned with three broad black stripes; side pair interrupted; some black marks on the breast; scutcheon pale yellow: abdomen obconical, shorter than the chest, its disk mostly pitchy: legs tawny: wings colourless; wing-ribs tawny; veins black, tawny towards the base; lower cross-vein very oblique, curved outward at the upper end; parted by twice its length from the middle cross-vein, by more than eight times its length from the end of the fourth longitudinal vein, and by more

than thrice its length from the end of the fifth longitudinal vein. Length of the body 1 line; of the wings 2 lines.

*a.* New Holland. Presented by the Entomological Club.

*CHLOROPS albifrons*, n. s., fem. *Flava, subtus flavo-albida, verticis macula picea, thorace nigro trivittato, abdominis disco fusco, palpis antennisque fulvis, pedibus flavis, alis limpidis.*

Body yellow above, whitish yellow beneath: a large triangular pitchy spot on the crown; face almost white: eyes red: sucker and palpi pale tawny: feelers tawny, a little shorter than the face, black above; third joint flat above, convex beneath, somewhat truncated at the tip, more than twice the length of the second; bristle tawny, bare, pitchy towards the tip, more than twice the length of the third joint: chest adorned with three very broad black stripes: a very small pitchy spot on each side of the fore breast; abdomen oval, hardly longer than the chest; its disk brown: legs yellow; feet tawny, with pitchy tips: claws black: wings colourless; wing-ribs pitchy; veins black; longitudinal veins straight; lower cross-vein straight, upright, parted by more than twice its length from the middle cross-vein, by eight times its length from the end of the fourth longitudinal vein, and by more than thrice its length from the end of the fifth longitudinal vein; poisers white. Length of the body 1 line; of the wings 2 lines.

*a.* Adelaide. Presented by the Entomological Club.

*CHLOROPS perpusilla*, n. s. *Picea, thorace nigro, pedibus fuscis, alis subcinereis.*

Body black, shining: head pitchy: eyes red: sucker, palpi, and feelers pitchy(?): breast and abdomen pitchy, the latter obconical, a little shorter than the chest: legs brown; hips tawny; claws black: wings slightly gray; wing-ribs tawny; veins pitchy, tawny towards the base; longitudinal veins straight; lower cross-vein straight, upright, parted by more than twice its length from the middle cross-vein, by more than four times its length from the end of the end of the fourth longitudinal vein, and by more than its length from the end of the fifth longitudinal vein; poisers white. Length of the body  $\frac{2}{3}$  line; of the wings  $1\frac{1}{2}$  line.

*a.* Sierra Leone. Presented by the Rev. D. F. Morgan.

*CHLOROPS postmacula*, n. s., fem. *Ferruginea, lata, abdomine fulvo maculis nigris trivittato, palpis antennis pedibusque ferrugineis, alis subcinereis ad costam subfulvis.*

Body ferruginous: head and chest beset with a few black bristles; a row of short black bristles behind the eyes: eyes red; all

the facets very small: sucker and palpi ferruginous, the latter beset with black bristles: feelers ferruginous, nearly as long as the face; first and second joints beset with a few black bristles; third elliptical, deeper than the second, and more than twice its length; bristle black, clothed to the tip with very short hairs, more than thrice the length of the third joint: chest broad: abdomen tawny, obconical, thinly clothed with short black hairs and bristles, narrower but not longer than the chest, adorned with three rows of black spots, these are most distinct towards the tip, where the spots on the middle row are oblong: legs ferruginous, clothed with a few black hairs and bristles; claws black: wings slightly gray, with a tawny tinge along the fore border; wing-ribs tawny; veins pitchy; longitudinal veins straight; lower cross-vein oblique, hardly curved inward, parted by more than twice its length from the middle cross-vein, by more than thrice its length from the end of the fourth longitudinal vein, and by a little less than its length from the end of the fifth longitudinal vein; poisers pale ferruginous. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Sandwich Islands. Presented by Capt. Beechey.

CHILOROPS, (n. g.?) maculata, n. s., fem. *Flava, capite fasciis maculisque duabus thorace pectoreque vittis quatuor nigris, thoracis disco fulvo, abdomine nigro quadrivittato, palpis antennisque fulvis, pedibus flavis, alis limpidis fusco confertim maculatis, vena longitudinali 4<sup>o</sup> arcuata.*

Body yellow: head and chest beset with a few black bristles: black band on the crown, and a black spot at the base of each feeler; epistoma prominent, with a slender black band at the base: eyes red; facets of the fore part much larger than those elsewhere: sucker, palpi, and feelers tawny: feelers shorter than the face; third joint conical, not deeper than the second, but more than twice its length; bristle black, slender, yellow at the base, about twice the length of the third joint: chest adorned with four black stripes, the middle pair approaching each other towards the scutcheon, which is adorned with a single stripe; disk of the chest tawny: two black stripes on each side of the breast, whose disk also is partly black: abdomen obconical, a little broader but not longer than the chest, adorned with four imperfect black stripes: legs pale yellow; claws black: wings colourless, adorned with more than twenty brown spots; wing-ribs tawny; veins black, tawny towards the base; longitudinal veins straight, with the exception of the fourth, which is curved upward to the middle cross-vein, then curved downwards to the lower cross-vein, whence forming a very obtuse angle it proceeds in a more direct line to the tip; basal cross-veins more in the disk

than those of other species of *Chlorops*; lower cross-vein straight, slightly oblique, parted by little less than twice its length from the middle cross-vein, by little more than twice its length from the end of the fourth longitudinal vein, and by much less than its length from the end of the fifth longitudinal vein; poisers yellow. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

Div. B. *Meig.*

*Oscinis, Fabr.*

*CHLOROPS palposa, Meig. Dipt. vi. 152, 28. Oscinis palposa, Fall. Oscinid. 6, 7. Macq. Hist. Nat. Dipt. ii. 598, 1.*

a. England. Presented by F. Walker, Esq.

b. France.

*CHLOROPS cornuta, Meig. Dipt. vi. 158, 48. Oscinis cornuta, Fall. Oscinid. 6, 6. Macq. Hist. Nat. Dipt. ii. 602, 20. Zett. Ins. Lapp. 780, 8.*

a. England.

*CHLOROPS brevipennis, Meig. Dipt. vi. 159, 49, pl. 61, f. 19, 20.*

a. England.

*CHLOROPS vindicata, Meig. Dipt. vi. 160, 51. Oscinis vindicata, Macq. Hist. Nat. Dipt. ii. 603, 26.*

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

d. Alten. Presented by F. Walker, Esq.

*CHLOROPS Frit, Meig. Dipt. vi. 160, 52. Musca Frit, Linn. Faun. Suec. 1851. Gmel. Ed. Syst. Nat. i. 5, 2849, 90. Fabr. Sp. Ins. ii. 445, 50. Ent. Syst. iv. 333, 90. Oscinis Frit, Fabr. Syst. Antl. 216, 5. Fall. Oscinid. 7, 9. Dahlbom, Scand. Ins. Zett. Ins. Lapp. 781, 12.*

a. ——— ?

*MEROMYZA, Meig.*

*MEROMYZA pratorum, Meig. Dipt. vi. 165, 1. Macq. Hist. Nat. Dipt. ii. 589, 3.*

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

*MEROMYZA variegata*, *Meig. Dipt.* vi. 165, 2. *Macq. Hist. Nat. Dipt.* ii. 589, 2. *Hal. Ent. Mag.* i. 172. *Zett. Ins. Lapp.* 778, 1.

a. England. Presented by F. Walker, Esq.

b. England.

*MEROMYZA saltatrix*, *Meig. Dipt.* vi. 165, 3. *Macq. Hist. Nat. Dipt.* ii. 5891, pl. 23, f. 12. *Zett. Ins. Lapp.* 778, 2. *Musca saltatrix*, *Linn. Faun. Suec.* 2319. *Musca minuta*, *Fabr. Ent. Syst.* iv. 361, 202. *Gmel. Ed. Syst. Nat.* i. 5, 2859, 254. *M. clavicornis*, *Gmel. Ed. Syst. Nat.* i. 5, 2862, 299. *Schrank, Ins. Austr.* 958. *Tephritis minuta*, *Fabr. Syst. Antl.* 323, 31. *Oscinis saltatrix*, *Fall. Oscinid.* 3, 1.

a. England. Presented by F. Walker, Esq.

b. England.

*MEROMYZA viridula*, *Haliday, Ent. Mag.* i. 172.

a. England. Presented by F. Walker, Esq.

#### *AGROMYZA, Fallen.*

*Div. A. Meig. pl.* 61, f. 33.

a. *Meig. Dipt.* vi. 168.

*AGROMYZA reptans*, *Megerle, Meig. Dipt.* vi. 168, 1. *Macq. Hist. Nat. Dipt.* ii. 606, 1. *Zett. Ins. Lapp.* 787, 1.

a. England. Presented by F. Walker, Esq.

*AGROMYZA nigripes*, *Meig. Dipt.* vi. 170, 7. *Macq. Hist. Nat. Dipt.* ii. 607, 8. *Zett. Ins. Lapp.* 788, 2.

a. England. Presented by F. Walker, Esq.

b. *Meig. Dipt.* vi. 173.

c. *Meig. Dipt.* vi. 174.

*AGROMYZA denticornis*, *Meig. Dipt.* vi. 175, 25. *Chlorops denticornis*, *Panz. Faun. Germ.* 104, 22. *Fall. Agromyz.* 9, 1. *Odonotocera denticornis*, *Macq. Hist. Nat. Dipt.* ii. 614, 1, pl. 23, f. 18.

a. England. Presented by F. Walker, Esq.

b. Upsal. Presented by the Entomological Club.

AGROMYZA ornata, *Meig. Dipt.* vi. 176, 29.

a. England. Presented by F. Walker, Esq.

d. *Meig. Dipt.* vi. 177.

AGROMYZA latipes, *Meig. Dipt.* vi. 177, 34. *Macq. Hist. Nat. Dipt.* ii. 609, 20.

a. England. Presented by F. Walker, Esq.

Div. B. *Meig. pl.* 61, f. 36.

a. *Meig. Dipt.* vi. 178.

b. *Meig. Dipt.* vi. 179.

c. *Meig. Dipt.* vi. 180.

AGROMYZA variegata, *Meig. Dipt.* vi. 180, 43.

a. England. Presented by F. Walker, Esq.

Div. C. *Meig. pl.* 61, f. 35.

a. *Meig. Dipt.* vi. 182.

b. *Meig. Dipt.* vi. 184.

c. *Meig. Dipt.* vi. 184.

AGROMYZA exigua, *Meig. Dipt.* vi. 184, 58.

a. England. Presented by F. Walker, Esq.

AGROMYZA pusilla, *Meig. Dipt.* vi. 185, 60.

a. England. Presented by F. Walker, Esq.

AGROMYZA amæna, *Meig. Dipt.* vi. 187, 68. *Macq. Hist. Nat. Dipt.* ii. 613, 41.

a. England. Presented by F. Walker, Esq.

AGROMYZA ———?

a. Fontainebleau. Presented by the Entomological Club.

AGROMYZA ———?

a. South of France. Presented by the Entomological Club.



PHYTOMYZA, *Fallen.*Div. A. *Meig. pl. 62, f. 5.*

PHYTOMYZA *lateralis*, *Fall. Phytomyz.* 3, 2. *Meig. Dipt.* vi. 190,  
 3. *Macq. Hist. Nat. Dipt.* ii. 616, 2, *pl. 23, f. 19.* *Zett.*  
*Ins. Lapp.* 794, 8. *Curt. Brit. Ent.* 277.

a. England. Presented by F. Walker, Esq.

b. France.

Div. B. *Meig. pl. 62, f. 6.*a. *Meig. Dipt.* vi. 190.

PHYTOMYZA *nigripennis*, *Fall. Phytomyz.* 2, 1. *Meig. Dipt.* vi.  
 190, 5.

a. England. Presented by F. Walker, Esq.

PHYTOMYZA *obscura*, *Fall. Phytomyz.* 4, 8. *Meig. Dipt.* vi. 191,  
 6. *Macq. Hist. Nat. Dipt.* ii. 617, 5. *Zett. Ins. Lapp.* 792, 1.

a. England. Presented by F. Walker, Esq.

b. Alten. Presented by the Entomological Club.

c. Hammerfest. Presented by the Entomological Club.

d. Kaafjord. Presented by the Entomological Club.

e. Haparanda. Presented by the Entomological Club.

f. Gothenberg. Presented by the Entomological Club.

PHYTOMYZA *nigra*, *Meig. Dipt.* vi. 191, 7.

a. England. Presented by F. Walker, Esq.

PHYTOMYZA *atra*, *Meig. Dipt.* vi. 191, 8. *Macq. Hist. Nat. Dipt.*  
 ii. 617, 6.

a. England. Presented by F. Walker, Esq.

PHYTOMYZA *albipennis*, *Fall. Phytomyz.* 4, 9. *Meig. Dipt.* vi. 191,  
 10. *Macq. Hist. Nat. Dipt.* ii. 617, 7.

a. England. Presented by F. Walker, Esq.

b. *Meig. Dipt.* vi. 192.

PHYTOMYZA *affinis*, *Fall. Phytomyz.* 3, 3. *Meig. Dipt.* vi. 192, 11.  
*Macq. Hist. Nat. Dipt.* ii. 618, 9. *Zett. Ins. Lapp.* 793, 6.

a. England.

b. Upsal. Presented by the Entomological Club.

*PHYTOMYZA rufipes*, Meig. *Dipt.* vi. 192, 13.

a. England. Presented by F. Walker, Esq.

*PHYTOMYZA notata*, Meig. *Dipt.* vi. 193, 16. *Macq. Hist. Nat. Dipt.* ii. 619, 16.

a. England. Presented by F. Walker, Esq.

b. Haparanda. Presented by the Entomological Club.

*PHYTOMYZA terminalis*, Meig. *Dipt.* vi. 195, 24. *Macq. Hist. Nat. Dipt.* ii. 619, 19.

a. England. Presented by F. Walker, Esq.

*PHYTOMYZA pallida*, Meig. *Dipt.* vi. 196, 25. *Macq. Hist. Nat. Dipt.* ii. 620, 21.

a. England. Presented by F. Walker, Esq.

*PHYTOMYZA flava*, Fall. *Phytomyz.* 3, 5. Meig. *Dipt.* vi. 196, 26. *Macq. Hist. Nat. Dipt.* ii. 620, 22.

a. England. Presented by F. Walker, Esq.

### BORBORUS, Meigen.

#### Div. A. Meig.

a. Meig.

b. Meig.

#### Group Sphærocera, Macq.

\* *Lordatia*, Desv. *Essai Myod.* 808.

† A. Hal. *Ent. Mag.* iii. 318.

*BORBORUS subsultans*, Meig. *Dipt.* vi. 200, 2. *Musca subsultans*, Fabr. *Sp. Ins.* ii. 444, 41. *Ent. Syst.* iv. 329, 72. *Schrank, Ins. Austr.* 940. *Gmel. Ed. Syst. Nat.* i. 5, 2847, 84. *Calobata subsultans*, Fabr. *Syst. Antl.* 264, 17. *Rhagio subsultans*, *Schrank, Faun. Boic.* iii. 2402. *Sphærocera curvipes*, Latr. *Gen. Crust.* iv. 359. *Copromyza subsultans*, Fall. *Heterom.* 7, 1. *Zett. Ins. Lapp.* 770, 2. *Lordatia merdarum*, Desv. *Essai Myod.* 808, 1. *L. stercoraria*, Desv. *Essai Myod.* 809, 2. *L. cadaverina*, Desv. *Essai Myod.* 809, 3. *L. necrophaga*, Desv. *Essai Myod.* 809, 5. *Sphærocera subsultans*, *Macq. Hist. Nat. Dipt.* ii. 565, 1, pl. 22, f. 17. *Hal. Ent. Mag.* iii. 318, 1.

a. England.

b. France.

c. Upsal. Presented by the Entomological Club.

d. Haparanda. Presented by the Entomological Club.

**BORBORUS monilis.** *Sphærocera monilis*, *Hal. Ent. Mag.* iii. 319, 2.

a. England. Presented by F. Walker, Esq.

†† A. A. *Hal. Ent. Mag.* iii. 319.

**BORBORUS vaporariorum.** *Lordatia coprina*, *Desv. Essai Myod.* 809, 4. *Sphærocera vaporariorum*, *Hal. Ent. Mag.* iii. 319, 3.

a. England. Presented by F. Walker, Esq.

\* *Coprina*, *Desv. Essai Myod.* 810.

**BORBORUS denticulatus**, *Meig. Dipt.* vi. 200, 3. *Coprina bovina*, *Desv. Essai Myod.* 810, 1. *Sphærocera denticulata*, *Macq. Hist. Nat. Dipt.* ii. 565, 2. *Hal. Ent. Mag.* iii. 320, 4.

a. England. Presented by F. Walker, Esq.

**BORBORUS scabriculus.** *B. scabricula*, *Haliday, Ent. Mag.* iii. 320. *Ann. Nat. Hist.* 1839, 188.

a. England. Presented by F. Walker, Esq.

c. *Meig.*

Group II. *Borborus*, *Hal. Ent. Mag.* iii. 320.

A. *Hal. Ent. Mag.* 321.

B. *Hal. Ent. Mag.* 321.

\* *Nerea*, *Desv. Essai Myod.* 802.

**BORBORUS nitidus**, *Meig. Dipt.* vi. 201, 4. *Macq. Hist. Nat. Dipt.* ii. 566, 1, pl. 22, f. 18. *Hal. Ent. Mag.* iii. 321, 1.

*B. hamatus*, *Hal. Ent. Mag.* i. 177. *Curt. Brit. Ent.* 469.

*Nerea nitidus*, *Desv. Essai Myod.* 803, 3.

a. England. Presented by F. Walker, Esq.

\*\* *Mycetia*, *Desv. Essai Myod.* 805.

**BORBORUS suillorum**, *Hal. Ent. Mag.* iii. 322, 2. *Mycetia tibialis*, *Desv. Essai Myod.* 806, 2.

a. England. Presented by F. Walker, Esq.

- BORBORUS niger**, *Meig. Dipt.* vi. 201, 6. *Macq. Hist. Nat. Dipt.* ii. 566, 3. *Hal. Ent. Mag.* iii. 322, 3.  
 a. England. Presented by F. Walker, Esq.

BB. *Hal. Ent. Mag.* iii. 323.

*Sphærocera*, *Desv. Essai Myod.* 807.

- BORBORUS equinus**, *Meig. Dipt.* vi. 201, 5. *Macq. Hist. Nat. Dipt.* ii. 566, 2. *Hal. Ent. Mag.* iii. 323, 4. *Copromyza equina*, *Fall. Heteromyz.* 6, 2. *Zett. Ins. Lapp.* 769, 1. *Sphærocera communis*, *Desv. Essai Myod.* 807, 1. *S. fuliginosa*, *Desv. Essai Myod.* 807, 2. *S. coprivora*? *Desv. Essai Myod.* 807, 3.

- a. England.  
 b. France.  
 c. ———? From Mr. Children's collection.  
 d. Stockholm. Presented by the Entomological Club.  
 e. Upsal. Presented by the Entomological Club.  
 f. Haparanda. Presented by the Entomological Club.  
 g. Kollare. Presented by the Entomological Club.  
 h. Karasuwandra. Presented by the Entomological Club.  
 i. Kautokeino. Presented by the Entomological Club.

- BORBORUS nigrifemoratus**, *Macq. Hist. Nat. Dipt.* ii. 567, 5. *Hal. Ent. Mag.* iii. 323, 5.

- a. England. Presented by F. Walker, Esq.

- BORBORUS flavipennis**, *Hal. Ent. Mag.* iii. 324, 6.

- a. England. Presented by F. Walker, Esq.

- BORBORUS longipennis**, *Hal. Ent. Mag.* iii. 324, 7.

- a. England. Presented by F. Walker, Esq.

- BORBORUS vitripennis**, *Meig. Dipt.* vi. 206, 20. *Hal. Ent. Mag.* iii. 325, 8.

- a. England. Presented by F. Walker, Esq.

**BORBORUS annulus**, n. s., mas. et fem. *Niger, thorace subæneo, palpis piceis, antennis pedibusque nigris, tibiis basi apiceque fulvis, alis subfuscis fusca bimaculatis.*

Body black, clothed with short black hairs: head beset with a few long black bristles: eyes red: sucker and palpi pitchy: feelers black; bristle downy to the tip, six times the length of the third joint: chest with a brassy tinge: legs black, clothed with short

black hairs; shanks at the base tawny, which colour is brightest and most prevalent on the hind shanks; tips of the shanks, especially of the hind pair tawny; middle feet dull tawny: wings slightly brown; wing-ribs and veins black; cross-veins clouded with brown; poisers pitchy; fifth longitudinal vein not extending beyond the lower cross-vein. Length of the body  $1\frac{1}{4}$ — $1\frac{1}{2}$  line; of the wings  $2\frac{1}{2}$ —3 lines.

a. York Factory. Presented by Dr. Rae.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*BORBORUS quinque maculatus*, n. s. *Niger, palpis antennis pedibusque piceis, tibijs fulvo bifasciatis, tarsis ferrugineo cinctis, alis fusco quinque maculatis.*

Body black, thickly beset with black hairs and bristles: sucker, palpi, and feelers pitchy: legs pitchy, thickly clothed with black hairs; a tawny ring round each shank, whose tip is also tawny; second and third joints of the feet ferruginous: wings pale brown, each adorned with five dark brown spots; wing-ribs and veins black. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.

a. Monte Video. Presented by C. Darwin, Esq.

AA. *Hal. Ent. Mag.* iii. 325.

*BORBORUS ater*, *Meig. Dipt.* vi. 203, 11. *Hal. Ent. Mag.* iii. 325, 9. *B. geniculatus*, *Macq. Hist. Nat. Dipt.* ii. 567, 6.

a. England. Presented by F. Walker, Esq.

Group III. *Limosina*, *Macq.*

A. }  
B. } *Hal. Ent. Mag.* iii. 326.  
C. }

*BORBORUS silvaticus*, *Meig. Dipt.* vi. 207, 24. *Curt. Brit. Ent.* 469, 24. *Mycetia claripennis*, *Desv. Essai Myod.* 806, 3. *Limosina sylvatica*, *Macq. Hist. Nat. Dipt.* ii. 572, 1. *Hal. Ent. Mag.* iii. 326, 1. *Copromyza silvatica*, *Zett. Ins. Lapp.* 771, 7.

a. England. Presented by F. Walker, Esq.

CC. }  
D. } *Hal. Ent. Mag.* iii. 327.

BORBORUS limosus, *Meig. Dipt.* vi. 207, 23. *Copromyza limosa*, *Fall. Heterom.* 8, 6. *Zett. Ins. Lapp.* 771, 6. *Nerea riparia*, *Desv. Essai Myod.* 802, 1. *Limosina limosa*, *Macq. Hist. Nat. Dipt.* ii. 327, 2. *Hal. Ent. Mag.* iii. 327, 2.

a. England. Presented by F. Walker, Esq.

BORBORUS humidus. *Limosina humida*, *Hal. Ent. Mag.* iii. 328, 3.

a. England. Presented by F. Walker, Esq.

DD. *Hal. Ent. Mag.* iii. 328.

BORBORUS arcuatus. *Limosina arcuata*, *Macq. Hist. Nat. Dipt.* ii. 572, 4. *Hal. Ent. Mag.* iii. 328, 4.

a. England. Presented by F. Walker, Esq.

BORBORUS geniculatus. *Limosina geniculata*, *Macq. Hist. Nat. Dipt.* ii. 328, 5. *Hal. Ent. Mag.* iii. 328, 5.

a. England. Presented by F. Walker, Esq.

BORBORUS crassimanus. *Nerea stercoraria?* *Desv. Essai Myod.* 803, 2. *Limosina crassimana*, *Hal. Ent. Mag.* iii. 328, 6.

a. England. Presented by F. Walker, Esq.

BORBORUS ochripes, *Meig. Dipt.* vi. 209, 29. *Limosina ochripes*, *Macq. Hist. Nat. Dipt.* ii. 572, 5. *Hal. Ent. Mag.* iii. 329, 7. *Copromyza ochripes*, *Zett. Ins. Lapp.* 771, 10.

a. England. Presented by F. Walker, Esq.

BORBORUS scutellaris. *Limosina scutellaris*, *Hal. Ent. Mag.* iii. 329, 8.

a. England. Presented by F. Walker, Esq.

BORBORUS nivalis, *Hal. Ent. Mag.* i. 178. *Curt. Brit. Ent.* 469, 29. *Limosina nivalis*, *Hal. Ent. Mag.* iii. 330, 9.

a. England. Presented by F. Walker, Esq.

BORBORUS fungicola. *Limosina fungicola*, *Hal. Ent. Mag.* iii. 330, 11.

a. England. Presented by F. Walker, Esq.

BORBORUS clunipes, *Meig. Dipt.* vi. 208, 26. *Limosina clunipes*, *Macq. Hist. Nat. Dipt.* ii. 573, 7. *Hal. Ent. Mag.* iii. 331, 13.

a. England. Presented by F. Walker, Esq.

**BORBORUS pumilio**, *Meig. Dipt.* 208, 27. *Limosina pumilio*, *Macq. Hist. Nat. Dipt.* ii. 573, 8. *Copromyza pumilio*, *Zett. Ins. Lapp.* 771, 9.

a. England. Presented by F. Walker, Esq.

BB. *Hal. Ent. Mag.* iii. 332.

**BORBORUS fuscipennis**, *Hal. Ent. Mag.* i. 178. *Limosina fuscipennis*, *Hal. Ent. Mag.* iii. 332, 16.

a. England. Presented by F. Walker, Esq.

BBB. *Hal. Ent. Mag.* iii. 332.

**BORBORUS vagans**, *Hal. Ent. Mag.* i. 178. *Limosina vagans*, *Hal. Ent. Mag.* iii. 332, 17.

a. England. Presented by F. Walker, Esq.

**BORBORUS lugubris**. *Limosina lugubris*, *Hal. Ent. Mag.* iii. 332, 18.

a. England. Presented by F. Walker, Esq.

AA }  
B } *Hal. Ent. Mag.* iii. 333.  
C }

**BORBORUS Zosteræ**, *Hal. Ent. Mag.* i. 178. *Limosina Zosteræ*, *Hal. Ent. Mag.* iii. 333, 19.

a. England. Presented by F. Walker, Esq.

**BORBORUS leucopterus**. *Limosina leucoptera*, *Hal. Ent. Mag.* iii. 333, 20.

a. England. Presented by F. Walker, Esq.

CC. *Hal. Ent. Mag.* iii. 334.

**BORBORUS nigerrimus**, *Hal. Ent. Mag.* i. 178. *Curt. Brit. Ent.* 469, 29, b. *Limosina minima*, *Macq. Hist. Nat. Dipt.* ii. 573, 9. *L. nigerrima*, *Hal. Ent. Mag.* iii. 334, 21.

a. England. Presented by F. Walker, Esq.

BB. *Hal. Ent. Mag.* iii. 334.

BORBORUS melanius. *Limosina melania*, *Hal. Ent. Mag.* iii. 334, 22.

a. England. Presented by F. Walker, Esq.

d. *Meig. Dipt.* vi. 206, pl. 62, f. 19.

Group IV. Heteroptera, *Macq.*

BORBORUS pusillus, *Meig. Dipt.* vi. 206, 22. *Copromyza pusilla*, *Fall. Heterom.* 8, 5. *Zett. Ins. Lapp.* 770, 3. *C. subvultans*, var.  $\beta$ , *Fall. Heterom.* 7, 3. *Heteroptera pusilla*, *Macq. Hist. Nat. Dipt.* ii. 570, 1. *Hal. Ent. Mag.* iii. 335, 1.

a. England. Presented by F. Walker, Esq.

B. *Meig. Dipt.* vi. 209.

Group V. Apterina, *Macq.*

BORBORUS pedestris, *Meig. Dipt.* vi. 209, 30, pl. 62, f. 21. *Apterina pedestris*, *Macq. Hist. Nat. Dipt.* ii. 574, 1. *Hal. Ent. Mag.* iii. 326, 1.

a. England.

Group Bacchis, *Desv. Essai Myod.* 803.

Group Fimelia, *Desv. Essai Myod.* 810.

Group Scatophora, *Desv. Essai Myod.* 811.

Group Olina, *Desv. Essai Myod.* 812.

BORBORUS ——— ?

a. ——— ? Presented by the Entomological Club.

ORYGMA, *Meigen.*

ORYGMA luctuosa, *Meig. Dipt.* vi. 6, 1, pl. 55, f. 13—17. *Macq. Hist. Nat. Dipt.* ii. 419, 1. *Zett. Ins. Lapp.* 768, 1. *Hippobosca marina*, *Montagu, MSS.* ?

a. England. Presented by F. Walker, Esq.



## CÆLOPA, Meigen.

Group I. Cælopa, Hal. *Ann. Nat. Hist.* ii. 186.

CÆLOPA pilipes, Hal. *Ann. Nat. Hist.* 1839, 186. C. frigida, Meig. *Dipt.* vi. 8, 1. Macq. *Hist. Nat. Dipt.* ii. 502, 1. Hipobosa marina, Montagu, MSS. ?

a. England. Presented by F. Walker, Esq.

b. England.

Group II. Fucomyia, Hal. *Ann. Nat. Hist.* ii. 186.

CÆLOPA frigida, Hal. *Ann. Nat. Hist.* ii. 186, 2. Zett. *Ins. Lapp.* 769, 1. Musca frigida, Fabr. *Syst. Antl.* 307, 116. Copromyza frigida, Fall. *Heteromyz.* 6, 1. Cælopa gravis, Hal. *Ent. Mag.* i. 167. Psalidomyia fucicola, Doumerc, *Ann. Soc. Ent. Fr.* 1839, 89.

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

d. Alten. Presented by F. Walker, Esq.

CÆLOPA simplex, Hal. *Ent. Mag.* i. 167. *Ann. Nat. Hist.* ii. 186.

a. England. Presented by F. Walker, Esq.

b. England.

CÆLOPA parvula, Hal. *Ent. Mag.* i. 167. *Ann. Nat. Hist.* ii. 186.

a. England. Presented by F. Walker, Esq.

b. England.

Group III. Malacomyza, Hal. *Ann. Nat. Hist.* ii. 186.

CÆLOPA sciomyzina, Hal. *Ent. Mag.* i. 167. *Ann. Nat. Hist.* ii. 186.

a. England. Presented by F. Walker, Esq.

b. England.

## Group IV.

CÆLOPA glabra, n. s., mas. et fem. *Nigra, capite antico palpisque rufis, antennis nigris, pedibus rufis, femoribus nigris, alis subcinereis.*

Body black, linear: head and chest beset with a few black bristles: head red in front and beneath, where it is clothed with

white hairs: eyes pitchy; facets of the fore part a little larger than those elsewhere: sucker black, clothed with hoary hairs; palpi red, beset with black bristles: sides of the face without bristles; epistoma slightly prominent: feelers black, shorter than the face; third joint conical, much longer than the second; bristle slender, bare, stout at the base, about twice the length of the third joint: abdomen clothed with short black hairs, much longer than the chest: legs red, clothed with short black hairs; thighs black, with red tips; a black band round each shank; claws black: wings slightly gray; wing-ribs and veins black; longitudinal veins straight; lower cross-vein straight, slightly oblique, parted by much more than twice its length from the middle cross-vein, by more than thrice its length from the end of the fourth longitudinal vein, and by one-third of its length from the end of the fifth longitudinal vein; poisers red. Length of the body 3—4 lines; of the wings 8—10 lines.

a. England.

*PHORA, Latreille.*

Div. a. *Meig. pl. 63, f. 5.*

*PHORA incrassata, Meig. Dipt. vi. 212, 1, pl. 63, f. 5. Macq. Hist. Nat. Dipt. ii. 630, 25.*

- a. England. Presented by F. Walker, Esq.  
b. France.

Div. b. *Meig. pl. 63, f. 6.*

*PHORA maculata, Meig. Dipt. vi. 214, 7.*

- a. England. Presented by F. Walker, Esq.

*PHORA thoracica, Latr. Gen. Crust. iv. 360, pl. 15, f. 12. Meig. Dipt. vi. 214, 8. Macq. Hist. Nat. Dipt. ii. 625, 1, pl. 24, f. 1. Trineura thoracica, Meig. Klass. i. 2, 313, 21. Fall. Phytomyz. 6, 3. Zett. Ins. Lapp. 795, 2.*

- a. England. Presented by F. Walker, Esq.  
b. ——— ?

*PHORA abdominalis, Meig. Dipt. vi. 225, 40. Curt. Brit. Ent. 437. Trineura abdominalis, Fall. Phytomyz. 5, 2.*

- a. England.

*PHORA dimidiata, Meig. Dipt. vi. 215, 9.*

- a. England. Presented by F. Walker, Esq.

*PHORA urbana*, *Meig. Dipt. vi.* 215, 11. *Macq. Hist. Nat. Dipt. ii.* 627, 8.

a. England. Presented by F. Walker, Esq.

b. Alten. Presented by F. Walker, Esq.

*PHORA opaca*, *Meig. Dipt. vi.* 216, 12. *Macq. Hist. Nat. Dipt. ii.* 627, 9.

a. England. Presented by F. Walker, Esq.

b. France.

c. (Var. ?) Alten. Presented by F. Walker, Esq.

*PHORA fuscipes*, *Macq. Hist. Nat. Dipt. ii.* 627. *Hardy, Zoologist*, 2099.

a. England. Presented by F. Walker, Esq.

b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*PHORA annulata*, *Meig. Dipt. vi.* 216, 14. *Macq. Hist. Nat. Dipt. ii.* 627, 11.

a. England. Presented by F. Walker, Esq.

*PHORA rufipes*, *Meig. Dipt. vi.* 216, 15. *Macq. Hist. Nat. Dipt. ii.* 627, 12. *P. pallipes*, *Latr. Gen. Crust. iv.* 360. *Trineura rufipes*, *Fabr. Syst. Anth. 336*, 1. *Meig. Klass. i.* 2, 313, 3, pl. 15, f. 23. *Zett. Ins. Lapp.* 795, 3. *Fall. Phytomyz.* 6, 5.

a. England. Presented by F. Walker, Esq.

b. England.

c. France.

d. Stockholm. Presented by the Entomological Club.

e. Gothenberg. Presented by the Entomological Club.

f. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*PHORA lugubris*, *Meig. Dipt. vi.* 217, 17.

a. England. Presented by F. Walker, Esq.

b. Kaafjord. Presented by the Entomological Club.

c. Haparanda. Presented by the Entomological Club.

d. Upsal. Presented by the Entomological Club.

*PHORA nigra*, *Meig. Dipt. vi.* 218, 18. *Macq. Hist. Nat. Dipt. ii.* 628, 14.

a. England. Presented by F. Walker, Esq.

*PHORA pumila*, *Meig. Dipt. vi.* 218, 20.

a. England. Presented by F. Walker, Esq.

*PHORA* bicolor, *Megerle, Meig. Dipt. vi. 219, 23. Macq. Hist. Nat. Dipt. ii. 628, 16.*

a. England. Presented by F. Walker, Esq.

*PHORA* fasciata, *Meig. Dipt. vi. 225, 41. Trineura fasciata, Fall. Phytomyz. 7, 9.*

a. England. Presented by F. Walker, Esq.

*PHORA* lutea, *Meig. Dipt. vi. 220, 25. Macq. Hist. Nat. Dipt. ii. 628, 18. Trineura flava, var., Fall. Phytomyz. 7, 8. T. lutea, Zett. Ins. Lapp. 797, 11.*

a. England. Presented by F. Walker, Esq.

Div. c. *Meig. pl. 63, f. 7.*

*PHORA* crassicornis, *Meig. Dipt. vi. 220, 26. Macq. Hist. Nat. Dipt. ii. 629, 22, pl. 24, f. 3.*

a. England. Presented by F. Walker, Esq.

Div. d. *Meig. pl. 63, f. 8.*

*PHORA* funebris, *Meig. Dipt. vi. 221, 30.*

a. England. Presented by F. Walker, Esq.

*PHORA* florea, *Meig. Dipt. vi. 221, 31. Macq. Hist. Nat. Dipt. ii. 629, 20. Bibio florea, Fabr. Ent. Syst. iv. 255, 8. Syst. Antl. 68, 9.*

a. England. Presented by F. Walker, Esq.

Div. e. *Meig. pl. 63, f. 9.*

*Gymnophora, Macq.*

*PHORA* arcuata, *Meig. Dipt. vi. 222, 33. Gymnophora arcuata, Macq. Hist. Nat. Dipt. ii. 631, 1, pl. 24, f. 5. Trineura rufipes, Fall. Phytom. 5, 1. T. arcuata, Zett. Ins. Lapp. 795, 1.*

a. England. Presented by F. Walker, Esq.

Div. f. Conicera, *Meig. pl.* 63, f. 10,

*PHORA* Dauci, *Meig. Dipt.* vi. 223, 34. *Conicera atra*, *Meig. Dipt.* vi. 226, 1, *pl.* 63, f. 12, 13. *Macq. Hist. Nat. Dipt.* ii. 632, 1, *pl.* 24, f. 6.

a. England.

Div. g. *Meig. pl.* 63, f. 11.

*PHORA* aterrima, *Latr. Hist. Nat. Cr.* xiv. 394. *Gen. Crust.* iv. 360. *Meig. Dipt.* vi. 224. *Macq. Hist. Nat. Dipt.* ii. 629, 23, *pl.* 24, f. 4. *Musca aterrima*, *Fabr. Ent. Syst.* iv. 334, 93. *Musca* &c., *Geoff. Ins.* ii. 533, 76. *Schell. Mouch. t.* 12, f. 1. *Cog. Icon. t.* 24, f. 3. *Tephritis aterrima*, *Fabr. Syst. Antl.* 323, 35. *Trineura atra*, *Meig. Klass.* i. 2, 313, 1, *pl.* 15, f. 22. *Fall. Phytomyz.* 7, 7. *Zett. Ins. Lapp.* 796, 8.

a. England. Presented by F. Walker, Esq.

b. ———? From Mr. Children's collection.

c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*PHORA* stictica, *Meig. Dipt.* vi. 225, 39. *Trineura stictica* *Zett. Ins. Lapp.* 797, 9.

a. England. Presented by F. Walker, Esq.

b. Alten. Presented by F. Walker, Esq.

c. Hammerfest. Presented by F. Walker, Esq.

Div. h. Metopina, *Macq.*

*PHORA* galeata, *Hal. Ent. Mag.* i. 179. *Metopina galeata*, *Macq. Hist. Nat. Dipt.* ii. 666, 1.

a. England. Presented by F. Walker, Esq.

b. Fontainebleau. Presented by the Entomological Club.

*CELYPHUS*, *Dalman.*

*CELYPHUS* obtectus, *Dalm. Analecta Ent.* 32, 1, *pl.* 2, *B. f.* 1—5. *Act. Holm.* 1818, i. 72. *Wied. Auss. Zweif.* ii. 601, 1, *pl.* 10, f. 8.

a. Philippine Islands. From Mr. Cuming's collection.

b. ———?

*CELYPHUS* scutatus, *Wied. Auss. Zweif.* ii. 601, 2.

a. Philippine Islands. From Mr. Wood's collection.

**CELYPHUS** **Africanus**, n. s. *Cupreo-purpureus, viridi et cyaneo varius, capite antennis pedibusque fulvis, tibiis piceo cinctis, femoribus posticis piceis.*

Head tawny, shining, bluish purple on the crown, somewhat prominent above the insertion of the feelers: eyes red, very convex; facets small: sucker and palpi pitchy: feelers tawny, longer than the head; first joint club-shaped; second irregularly conical, partly brown above, much longer and broader than the first, one-third of its length beyond the insertion of the third joint; the latter spindle-shaped, a little shorter and much more slender than the second; fourth slender, like a spine, less than one-fourth of the length of the third: chest coppery purple, adorned with two green stripes, largely punctured here and there; a green spot on each side of the hind border; scutcheon purplish-copper, more thickly and coarsely punctured than the chest: abdomen dark bluish green: legs tawny; hind thighs pitchy; an indistinct pitchy band round each shank. Length of the body  $1\frac{1}{2}$  line.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

## Sub-order II.—EPROBOSCIDEÆ.

## Fam. XXV. CORIACEÆ.

## HIPPOBOSCA, Linn.

*HIPPOBOSCA equina*, Linn. *Faun. Suec.* 1921. *Gmel. Ed. Syst. Nat.* i. 5, 2904, 1. *Fabr. Sp. Ins.* ii. 474, 1. *Ent. Syst.* iv. 415, 1. *Syst. Antl.* 337, 2. *Reaum.* vi. pl. 48. *Deg. Ins.* vi. 110, 1, pl. 16, f. 1—20. *Geoff. Ins.* ii. 547, 1. *Schell. Gen. Mouch.* pl. 42, f. 1. *Schrank, Faun. Boic.* iii. 2583. *Ins. Austr.* 1007. *Berk. Syn.* i. 168. *Don. Brit. Ins.* viii. 21, pl. 261, f. 1. *Stew. El.* ii. 274. *Turt.* iii. 687. *Shaw, Gen. Zool. Ins.* vi. 401, pl. 114. *Panz. Faun. Germ.* 7, 23. *Latr. Gen. Crust.* iv. 363. *Leach, Eprobosc.* 9, 1, pl. 26, f. 4—7. *Ed. Enc.* ix. 130. *Oken, Lehrbuch der Naturges.* iii. 533, 1, pl. 14. *Sam. Comp.* 302, pl. 9, f. 11. *Fall. Hæmatom.* 14, 1. *Meig. Dipt.* vi. 228, 1, pl. 63, f. 15—20. *Zett. Ins. Lapp.* 624, 1. *Macq. Hist. Nat. Dipt.* ii. 638, 1, pl. 24, f. 8. *H. bipartita*, var. ? *Macq. Dipt. Exot.* ii. 3, 275, 2. *H. orientalis*, var. ? *Macq. Dipt. Exot.* ii. 3, 275, 3.

- a. England.
- b. Portugal.
- c. Var. ? Madeira.
- d. Egypt.
- e. Cape. Presented by the Earl of Derby.
- f. South Africa. From Mr. Pearson's collection.

*HIPPOBOSCA camelina*, Savigny, *Leach, Eprob. Ins.* 10, 4, pl. 27, f. 11. *Wied. Auss. Zweif.* ii. 602, 1. *H. Egyptiaca*, *Macq. Dipt. Exot.* ii. 3, 274, 1, pl. 36, f. 5.

- a. Egypt.
- b. ——— ? Presented by Capt. Lord Byron.
- c. Egypt. Presented by C. Lamb, Esq.
- d. Egypt, beyond the Cataracts. Presented by C. Lamb, Esq.

*HIPPOBOSCA variegata*, *Cat. Ins. Mus. Vien.* 1823. *Wied. Auss. Zweif.* ii. 603, 2. *H. maculata*, *Leach, Eprob. Ins.* 7, 1, pl. 26, f. 11—13.

- a. Madras. Presented by Walter Elliott, Esq.
- b. North Bengal. From Miss Campbell's collection.
- c. Bengal.
- d. Cape. From Mr. Children's collection.
- e. East India ? From Mr. Sowerby's collection.

*HIPPOBOSCA rufipes*, *Wied. Auss. Zweif.* ii. 604, 3. *H. maculata*,  
*Macq. Hist. Nat. Dipt.* ii. 638, 2.

a. Congo. Presented by Sir J. Richardson.

*HIPPOBOSCA Francilloni*, *Leach, Eprob. Ins.* 8, 2, *pl.* 26, *f.* 8—10.  
*Wied. Auss. Zweif.* ii. 605, 4.

a. Bengal.

b. Interior of South Africa. Presented by the Earl of Derby.

c. ——— ?

#### OLFERSIA, *Wiedemann.*

*OLFERSIA americana*, *Weid. Auss. Zweif.* ii. 606, 1. *Macq. Hist.*  
*Nat. Dipt.* ii. 640, 4. *Feronia americana*, *Leach, Eprob. Ins.*  
11, 2, *pl.* 27, *f.* 1—3.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by  
G. Barnston, Esq.

b. North America. From Mr. Children's collection.

c. Georgia. From Mr. Abbot's collection.

*OLFERSIA Macleayi*, *Leach, Eprob. Ins. Weid. Auss. Zweif.* ii.  
608, 3.

a. New Holland ?

*OLFERSIA propinqua*, n. s. *Viridi-picea, capite antico pallidioris,*  
*pedibus fulvis, femoribus nigro subvittatis, tarsis piceis, alis*  
*fuscis.*

Body pitchy, smooth, shining; shoulders, front of the head and  
mouth paler; sides of the crown metallic green; chest more slightly  
metallic: tip of the abdomen beset with a few black bristles: legs  
tawny; thighs slightly streaked with black; feet pitchy; claws  
black: wings brown; wing-ribs and veins pitchy. Length of the  
body  $1\frac{1}{2}$  line; of the wings 5 lines.

a. Jamaica. From Mr. Gosse's collection.

#### ORNITHOBIA, *Meigen.*

*ORNITHOBIA pallida*, *Meig. Dipt.* vi. 230, 1, *pl.* 63, *f.* 21—24.  
*Macq. Hist. Nat. Dipt.* ii. 639, 1, *pl.* 24, *f.* 9. *Siebold, Ent.*  
*Zeit. Stett.* vi. 275. *Alaphagus pallidus*, *Gimmerthul, Ent.*  
*Zeit. Stett.* vi. 152.

a. France.

b. Albania. Presented by W. W. Saunders, Esq.

c. Albania. From Mr. Walker's collection.

d. North Bengal. From Miss Campbell's collection.

e. Egypt. Presented by Sir Gardner Wilkinson.

f. ——— ? From Mr. Children's collection.



*ORNITHOBIA capensis*, n. s. *Picea*, capite fulvo antice flavo, verticis vitta ferruginea, pedibus fulvis, alis limpidis.

Body pitchy, smooth, shining: head tawny, yellow in front, having on the crown a large dull ferruginous obconical mark, which is slightly concave at the base and truncated at the tip: eyes pitchy; the facets rather large: borders of the chest and spines of the shoulders ferruginous: abdomen dull, clothed with short black hairs: legs tawny, beset with a few bristles; claws black; foot-cushions yellow: wings colourless; veins dark tawny. Length of the body 1 line; of the wings 4 lines.

a. Natal. From Dr. Krauss' collection.

*ORNITHOBIA*, n. s. ?

a. ——— ?

*ORNITHOMYIA*, Leach.

*ORNITHOMYIA avicularia*, Leach, *Eprobosc.* 15, 5, pl. 25, f. 4, 5. Meig. *Dipt.* vi. 232, 1, pl. 64, f. 1—4. Macq. *Hist. Nat. Dipt.* ii. 641, 1, pl. 24, f. 11. Oken, *Lehrbuch der Nat.* iii. 533, 1, pl. 14. Hippobosca avicularia, Linn *Syst. Nat.* ii. 1010, *Faun. Suec.* 1922. Gmel. *Ed. Syst. Nat.* i. 5, 2904, 2. Fabr. *Sp. Ins.* ii. 275, 2. Ent. *Syst.* iv. 415, 2. *Syst. Antl.* 338, 3. Schell. *Gen. Mouch.* pl. 42, f. 3. Schrank, *Faun. Boic.* iii. 2584. Deg. *Ins.* vi. 114, 2, pl. 16, f. 21—27. Stew. *El.* 274. Turt. iii. 687? Shaw, *Gen. Zool.* vi. 402, pl. 115? Fall. *Hæmatomyz.* 15, 2.

a. England.

b. Alten. Presented by the Entomological Club.

*ORNITHOMYIA viridis*, Leach, *Eprob.* 14, 4, pl. 25, f. 1—3. Latr. *Gen. Crust.* iv. 362. Schell. *Gen. Mouch.* pl. 42, f. 2. Meig. *Dipt.* vi. 232, 2, pl. 64, f. 1. Macq. *Hist. Nat. Dipt.* ii. 642, 2.

a. England.

b. France.

c. ——— ? From Mr. Children's collection.

*ORNITHOMYIA Australasiæ*, Leach, *Eprob. Ins.* 12, 1, pl. 25, f. 6—8. Weid. *Auss. Zweif.* ii. 608, 1. Hippobosca Australasiæ, Fabr. *Syst.* 337, 1. Oliv. *Encyc. Meth. Ins.* viii. 544, 1.

a. New Holland. From Mr. Gould's collection.

*ORNITHOMYIA nigricans*, Leach, *Eprob. Ins.* 12, 2, pl. 27, f. 7—1. Wied. *Auss. Zweif.* ii. 609, 3.

a. Bengal.

*ORNITHOMYIA erythrocephala*, *Leach, Eprob. Ins.* 13, 3, pl. 27, f. 4—6. *Wied. Auss. Zweif.* ii. 610, 5.

a. Brazil.

b. Peru. From Mr. Children's collection.

c. Jamaica. From Mr. Gosse's collection.

d. Jamaica. On *Corvus Jamaicensis*. From Mr. Gosse's collection.

e. Jamaica. On *Columba rufina*. From Mr. Gosse's collection.

f. Jamaica. On *Tityra leuconotus*. From Mr. Gosse's collection.

g. Jamaica. On *Geotrygon montana*. From Mr. Gosse's collection.

h. Jamaica. On *Geotrygon sylvatica*. From Mr. Gosse's collection.

i. Jamaica. On *Turtur leucopterus*. From Mr. Gosse's collection.

j. Jamaica. On *Ephialtes grammicus*. From Mr. Gosse's collection.

k. Jamaica. On *Samothera vetula*. From Mr. Gosse's collection.

l. Jamaica. On *Herodias virescens*. From Mr. Gosse's collection.

m. Jamaica. On *Falco columbarius*. From Mr. Gosse's collection.

n. Jamaica. On *Peristora Jamaicensis*. From Mr. Gosse's collection.

o. Jamaica. On *Strix pratincola*. From Mr. Gosse's collection.

p. Jamaica. On *Zenaida amabilis*. From Mr. Gosse's collection.

q. Venezuela. From Mr. Dyson's collection.

r. ———? From Mr. Children's collection.

s. ———?

*ORNITHOMYIA nebulosa*, *Say, Journ. Acad. Philad.* iii. 102, 1. *Wied. Auss. Zweif.* ii. 610, 6.

a. North America.

*ORNITHOMYIA pallida*? *Say, Journ. Acad. Philad.* iii. 108, 2. *Wied. Auss. Zweif.* ii. 610, 7.

a. Nova Scotia. From Lieut. Redman's collection.

*ORNITHOMYIA parva*? *Macq. Hist. Nat. Dipt.* ii. 3, 279, 3.

a. ———?

*ORNITHOMYIA nigra*? *Hippobosca nigra*? *Perty, Del. Anim. Art.* 190, pl. 37, f. 15.

a. St. Paul's, Brazil. Presented by C. Darwin, Esq.

*ORNITHOMYIA intertropica*, n. s. *Picea, ferrugineo varia, verticis margine albido, pedibus fulvis, alis fuscis.*

Body pitchy, smooth, shining, thinly clothed with short tawny hairs: crown of the head ferruginous, with whitish borders; mouth and appendages tawny: chest ferruginous, on each side and behind and adorned with a ferruginous stripe: abdomen dull, its tip beset with a few stout black bristles: legs dark tawny, clothed with short black hairs and bristles; claws black; wings brown; wing-ribs and fore border veins pitchy; the other veins dark tawny. Length of the body 3 lines; of the wings 8 lines.

a. Galapagos. Presented by C. Darwin, Esq.

*ORNITHOMYIA unicolor*, n. s. *Nigro-picea, pedibus piceis, alis fuscis.*

Body, including the mouth and appendages, pitchy-black: head and chest shining: head smooth: eyes pitchy; the facets rather large: chest finely punctured: abdomen dull: legs pitchy, clothed with short black hairs and bristles; claws black: wings brown; wing-ribs and fore border veins pitchy; the other veins dark tawny. Length of the body  $3\frac{1}{2}$  lines; of the wings 9 lines.

a. Jamaica. On *Ephialtes grammicus*. From Mr. Gosse's collection.

b. Jamaica. On *Frigata aquilus*. From Mr. Gosse's collection.

*ORNITHOMYIA remota*, n. s. *Fulva, scutello sulcis transversis vittato, pedibus fulvis, alis subfuscis,*

Body pale tawny: head and chest smooth, shining: eyes pitchy; facets rather large: mouth pitchy: scutcheon traversed by a row of slight furrows, widening from the fore border to the hind border, which is beset with a few stout black bristles: abdomen mostly dull, clothed with short black hairs, its tip beset with long black bristles: legs tawny, thickly clothed with black hairs and bristles; claws black: wings pale brown; wing-ribs and veins pitchy. Length of the body 2 lines; of the wings 6 lines.

a. Isle of Tristram da Cunha. From Dr. Leach's collection.

*ORNITHOMYIA vicina*, n. s. *Picea, capite humeris abdominis basi et segmentorum marginibus posticis apice fulvis, pedibus fulvis, femoribus basi coxisque pallidioribus, tarsis piceis, alis subfuscis.*

Body pitchy, smooth, shining: head, shoulders, and base of the abdomen dark tawny: tip of the abdomen beset with black

bristles; hind borders of its latter segments pale: legs tawny, clothed with black hairs; thighs at the base and hips pale tawny; feet pitchy; claws black: wings pale brown; veins pitchy; fore border veins at intervals, and wing-ribs pale tawny; second longitudinal vein united to the costal vein long before the end of the latter. Length of the body 1 line; of the wings 4 lines.

a. Jamaica. On *Ephialtes grammicus*. From Mr. Gosse's collection.

ORNITHOMYIA, n. s. ?

a. Jamaica. On *Psittacus leucocephalus*. From Mr. Gosse's collection.

ORNITHOMYIA, *opposita*, n. s. *Fulva, antennis palpisque fuscis, thorace antico bispinoso, pedibus viridi-fulvis, alis subfuscis.*

Body tawny, smooth, shining, thinly beset with black bristles: feelers and palpi dark brown: eyes and eyelets pitchy; facets of the eyes rather large, especially next the crown: a short spine projecting on each side of the fore border of the chest, which has one longitudinal and two cross furrows, one of the latter disappears in the disk: abdomen dull, thickly clothed with black hairs: legs pale tawny, tinged with green, beset with a few bristles; claws black; foot-cushions whitish: wings pale brown; wing-ribs pitchy; veins black. Length of the body 2 lines; of the wings 5 lines.

a. New Zealand. From Mr. Earl's collection.

ORNITHOMYIA *fulvifrons*, n. s. *Picea, capite antico fulvo, thoracis spinis apice flavis, pedibus fusco-fulvis, tarsis piceis, alis limpidis.*

Body pitchy, smooth, shining: fore part of the head, mouth and all the appendages bright tawny, beset with tawny bristles; crown dull in the middle, where one longitudinal and two diagonal furrows meet: a large spine, pale yellow towards the tip, projecting on each side of the fore border of the chest, whose two furrows are obsolete at their point of intersection: hind border of the scutcheon armed with a row of short black bristles: abdomen dull, clothed with short black hairs: legs brownish tawny, beset with black bristles; feet pitchy; knees and claws black; foot-cushions yellow: wings colourless; wing-ribs and veins pitchy; fore border veins black. Length of the body 2 lines; of the wings 6 lines.

a. Jamaica. On *Ortyx Virginiaia*. From Mr. Gosse's collection.

*ORNITHOMYIA varipes*, n. s. *Fulva*, *verticis vitta antice picea*, *thorace bisulcato*, *abdomine piceo*, *pedibus fulvis*, *femoribus basi viridibus*, *tibiarum vittis tarsisque piceis*, *alis limpidis*.

Body dark tawny, smooth, shining; front of the head and mouth beset with bristles; crown with a broad dull stripe, whose fore border is pitchy: eyes pitchy: two indistinct furrows on the chest, one longitudinal, the other transverse, quite obsolete at the point of intersection: abdomen pitchy, dull, clothed with black hairs: legs tawny, beset with black bristles; thighs at the base bright green; shanks with pitchy streaks; feet pitchy; claws black, long: wings colourless; wing-ribs pitchy; fore border veins black, the other veins dull tawny. Length of the body 2 lines; of the wings 5 lines.

a. Columbia. Presented by M. Goudot.

#### OXYPTERUM, Leach.

*OXYPTERUM pallidum*, Leach, *Eprob.* 171, pl. 25, f. 12—14.  
*Mouche araignée*, Geoff. *Ins.* ii. 547, 2. *Hippobosca Hirundinis*, Panz. *Faun. Germ.* 7, 24. *Schæff. Icon.* pl. 53, f. 1, 2.  
*Anapera pallida*, Meig. *Dipt.* vi. 235, 1, pl. 64, f. 12—14.  
*Macq. Hist. Nat. Dipt.* ii. 643, 1, pl. 24, f. 12.

a. England.

#### STREBLA, Wiedemann.

*STREBLA Vespertilionis*, Wied. *Auss. Zweif.* ii. 612, 1, pl. 10, f. 13.  
*Latr. Regn. Anim.* *Macq. Hist. Nat. Dipt.* ii. 637, 1, pl. 24, f. 7. *Hippobosca Vespertilionis*, Fabr. *Syst. Antl.* 339, 6.  
*Wied. Analecta, Ent.* 19, f. 7.

a. Columbia. Presented by M. Goudot.

b. Jamaica. From Mr. Gosse's collection.

*STREBLA Africana*, n. s. *Lutea*, *alis fulvo-albidis*.

Body and legs luteous, clothed with luteous hairs: eyes pitchy, smooth, very small: wings fringed, whitish, with a tawny tinge, which is most prevalent on the fore border and along the sides of the veins; wing-ribs and veins tawny; first longitudinal vein slightly waving, joining the fore border at two-thirds of the length of the wing; second joining the fore border at half the distance between the end of the first and the tip of the wing; third proceeding

from an outward angle formed by the middle cross-vein and joining the tip of the wing; fourth ending in the border just below the tip; fifth slightly waving, stopping a little short of the hind border; lower cross-vein straight, nearly upright, parted by six times its length from the middle cross-vein, by four times its length from the end of the fourth longitudinal vein, and by less than its length from the end of the fifth longitudinal vein. Length of the body  $\frac{3}{4}$  line; of the wings 2 lines.

a. Cape. From Dr. Krauss' collection.

### CRATERINA, *Olfers*.

CRATERINA *Hirundinis*, *Olfers*, *Curt. Brit. Ent.* iii. 122. *Hippobosca Hirundinis*, *Linn. Syst. Nat.* ii. 1010. *Faun. Succ.* 1923. *Fabr. Sp. Ins.* ii. 475, 3. *Ent. Syst.* iv. 415, 3. *Syst. Antl.* 339, 5. *Gmel. Ed. Syst. Nat.* i. 5, 2905, 3. *Schrank, Faun. Boic.* iii. 2585. *Berk. Syn.* i. 168. *Don. Brit. Ins.* viii. 45, pl. 268, f. 1. *Stew. El.* ii. 274. *Turt.* iii. 687. *Shaw, Gen. Zool. Ins.* vi. 403. *Wood, Ins.* ii. 109, pl. 72. *Fall. Hæmatom.* 15, 3. *Ornithomyia Hirundinis*, *Latr. Gen. Crust.* iv. 362. *Stenopteryx Hirundinis*, *Leach, Eprob.* 16, 1, pl. 25, f. 9—11. *Meig. Dipt.* vi. 234, 1, pl. 64, f. 5—9. *Macq. Hist. Nat. Dipt.* ii. 644, 1, pl. 24, f. 13.

a. England.

b. ———? From Mr. Children's collection.

### MELOPHAGUS, *Latreille*.

MELOPHAGUS *ovinus*, *Latr. Hist. Nat. Crust.* xiv. 403. *Gen. Crust.* iv. 363. *Leach, Eprob.* 18, 1, pl. 26, f. 14, 15. *Meig. Dipt.* vi. 236, 1, pl. 64, f. 16—18. *Curt. Brit. Ent.* iii. pl. 142. *Macq. Hist. Nat. Dipt.* ii. 645, 1, pl. 24, f. 15. *Hippobosca ovina*, *Linn. Syst. Nat.* ii. 1011. *Faun. Succ.* 1923. *Gmel. Ed. Syst. Nat.* i. 5, 2905, 4. *Fabr. Sp. Ins.* ii. 475, 4. *Ent. Syst.* iv. 416, 4. *Syst. Antl.* 339, 7. *Schrank, Faun. Boic.* iii. 2586. *Ins. Austr.* 1008. *Don. Brit. Ins.* viii. 46, pl. 268, f. 2. *Stew. El. Nat. Hist.* ii. 274. *Turt.* iii. 687. *Shaw, Gen. Zool. Ins.* vi. 403. *Panz. Faun. Germ.* 51, 14. *Fall. Hæmatomyz.* 15, 4.

a. England.

b. ———? From Mr. Children's collection.

## LEPTOPTENA, Nitzsch.

- LEPTOPTENA Cervi, Nitzsch, *Latr. Regn. Anim. Pediculus Cervi*, *Linn. Faun. Suec.* 1944. *Gmel. Ed. Syst. Nat.* i. 5, 2916, 7. *Fabr. Sp. Ins.* ii. 477, 5. *Ent. Syst.* iv. 418, 5. *Syst. Antl.* 341, 6. *Panz. Faun. Germ.* 51, 15. *Melophagus Cervi*, *Meig. Dipt.* vi. 237, 2. *Macq. Hist. Nat. Dipt.* ii. 645, 1.
- a. ——— ?

## NYCTERIBIA, Latreille.

- NYCTERIBIA Sykesii ? *Westw. Zool. Soc. Trans.* i. 288, 1, *pl.* 36, *f.* 1—25.
- a. Natal. From Dr. Krauss' collection.
- NYCTERIBIA Hopei, *Westw. Zool. Soc. Trans.* i. 289, 2, *pl.* 36, *f.* 26—28.
- a. Bengal. From Mr. Westwood's collection.
- NYCTERIBIA Blainvillei, *Westw. Zool. Soc. Trans.* i. 289, 4, *pl.* 36, *f.* 42.
- a. ——— ?
- NYCTERIBIA Jenynsii ? *Westw. Zool. Soc. Trans.* i. 291, 9, *pl.* 36, *f.* 29—34.
- a. China. Presented by G. T. Lay, Esq.
- NYCTERIBIA Roylei ? *Westw. Zool. Soc. Trans.* i. 290, 5, *pl.* 36, *f.* 35, 36.
- a. "On a large Indian Bat." From the Hardwicke bequest.
- NYCTERIBIA dubia ? *Westw. Zool. Soc. Trans.* i. 289, 3.
- a. Philippine Islands. From Mr. Wood's collection.
- b. Var. (?) Philippine Islands. From Mr. Cuming's collection.
- NYCTERIBIA biarticulata, *Westw. Zool. Soc. Trans.* i. 292, 11, *pl.* 36, *f.* 37—41. *Phthiridium biarticulatum*, *Herm. Mém. Apt.* *pl.* 6, *f.* 1. *P. Hermanni*, *Leach, Zool. Misc.* iii. *pl.* 144. *Celeripes Vespertilionis*, *Mont. Linn. Trans.* ix. 166. *Nycteria Vespertilionis*, *Mont. Linn. Trans.* xi. *pl.* 3, *f.* 5.
- a. ——— ?
- NYCTERIBIA ——— ?
- a. Jamaica. On *Dysopus*. From Mr. Gould's collection.

## NYCTERIBIA ——— ?

a. Jamaica. On *Noctilio mastivus*. From Mr. Gould's collection

## NYCTERIBIA ——— ?

a. Natal. From Dr. Krauss' collection.

NYCTERIBIA *Vespertilionis*, *Fabr. Syst. Antl.* 350, 1. *Latr. Gen. Crust.* iv. 364, *pl.* 15, *f.* 11. *Meig. Dipt.* vi. 238, 1, *pl.* 64, *f.* 19. *Oken, Lehrbuch der Nat.* *pl.* 14. *Macq. Hist. Nat. Dipt.* ii. 647, 1, *pl.* 24, *f.* 166. *Pediculus Vespertilionis*, *Linn. Faun. Suec.* 1941. *Acarus Vespertilionis*, *Fabr. Sp. Ins.* ii. 487, 15. *Ent. Syst.* iv. 429, 22. *Gmel. Ed. Syst. Nat.* i. 5, 2927, 9. *Schrank, Faun. Boic.* iii. 2587. •

a. ——— ?      •



## ERRATA AND ADDENDA.

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### Page 2.

Transfer *Culex ciliatus* and the references to *Psorophora ciliata*, of which it is a synonym, and omit "Georgia. From Mr. Abbot's collection."

### Page 3.

Omit *C. calopus* (which name belongs to another species), and substitute *CULEX guttatus*, *Megerle*.

### Page 6.


*CULEX caspius*, *Pallas*. *C. pipiens*, *Zetterstedt*. The Lapland Mosquito.

### Page 36.

#### *RHIPIDIA*, *Meigen*.

*RHIPIDIA maculata*, *Meig. Dipt.* i. 153, 1, pl. 5, f. 9—11. *Macq. Hist. Nat. Dipt.* i. 93, 1, pl. 2, f. 1.  
*a. England.*

### Page 44.

 *LIMNOBIA gracilis*, *Haliday*, read *LIMNOBIA gracilis*, *White*.  
*For LIMNOBIA chorica*, *Haliday*, read *LIMNOBIA chorica*, *White*.

### Page 45.

*For LIMNOBIA ægrotans*, *Haliday*, read *LIMNOBIA ægrotans*, *White*.  
*For LIMNOBIA tessellata*, *Haliday*, read *LIMNOBIA tessellata*, *White*.  
Omit *Haliday* after *LIMNOBIA fumipennis*.

## Page 57.

For *LIMNOBIA repanda*, *Haliday*, read *LIMNOBIA repanda*, *White*.

## Page 74.

For *MEGISTOCEBA dispar*, read *MEGISTOCERA costalis*. *Tipula costalis*, *Swed. Act. Holm.* 1787, 286, '45. *M. dispar*, *Walk.* &c.

## Page 84.

For e., read Section V.

## Page 103.

For f., read Section VI.

## Page 110.

For g., read Section VII.

## Page 113.

For h., read Section VIII.

## Page 114.

For *SCATOPSE veluto*, read *SCATOPSE veluta*.

## Page 123.

*RHYPSUS punctatus*.

b. France.

c. ——— ? From Mr. Children's collection.

*RHYPSUS fenestralis*.

b. France.

c. ——— ? From Mr. Children's collection.

## Page 126.

*DIPHYSA*, *Macquart*.

*DIPHYSA apicalis*. *Beris apicalis*, *White*, mas. *Fulvus, capite nigro antice cano, thorace abdominisque apice purpureis, thorace vittis tribus aureis pubescentibus ornato, antennis nigris basi rufis, pedibus fulvis tarsis anticis piceis, alis limpidis fulvo cinereoque vittatis nigro fasciatis.*

Head black, hoary in front : eyes pitchy-black ; facets of the fore feet rather larger than those elsewhere : palpi and sucker tawny ; second joint of the palpi spindle-shaped, not broader than the first :

feelers black, filiform, dark red towards the base, nearly as long as the chest: chest and breast dark purple; chest adorned with golden down, which forms three stripes; scutcheon tawny, armed with four teeth: abdomen tawny, a little narrower than the chest and nearly twice its length, slightly decreasing in breadth from the base to the tip, which is purple: legs tawny; hind legs long, their thighs club-shaped; fore feet pitchy: wings colourless on the disk, tawny along the fore border, gray along the hind border and at the tip, adorned with a blackish band which does not reach the hind border; wing-ribs and veins tawny; veins pitchy on the blackish band; poisers pale yellow. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

b. New Zealand. Presented by Dr. Hooker.

DIPHYSA spiniger, *Macq. Dipt. Exot.* i. 172. Xylophagns spiniger, *Wied. Auss. Zweif.* ii. 618. Beris albimacula seems to be a variety of this species.

Page 134.

PANGONIA appendiculata seems to be PANGONIA gulosa, M.B. *Wied. Auss. Zweif.* i. 99, 22.

Page 140.

PANGONIA lurida. This is perhaps a Tabanus.

Page 150.

TABANUS subvarius. This name must be omitted, for the species here described is a variety of PANGONIA fuscipennis, *Wied. Auss. Zweif.* i. 95, 16. *Macq. Hist. Nat. Dipt.* i. 1, 194, 10. *Dipt. Exot.* ii. 102, 12.

Page 172.

For TABANUS inscitus, read TABANUS comes.

Page 190.

DICHELACERA longicornis, *Macq. Dipt. Exot.* i. 1, 114, 2, pl. 16, f. 2.

a. Brazil. From Mrs. Noel's collection.

b. Brazil.

Page 208.

For HADRUS cyanea. *Rufa, &c.*, read HADRUS cyaneus. *Rufus, &c.*

## Page 213.

*RHAGIO mystacea.*

b. New York. Presented by the Entomological Club.

c. Trenton Falls. Presented by E. Doubleday, Esq.

## Page 214.

*For Chrysopita, read Chrysopila.*

## Page 220.

*ATHERIX vidua*, n. s., mas. et fem. *Nigro-cinerea, capito anticono, antennis nigris basi ferrugineis, pedibus piceis, alis cinereis ad costam subfulvis.*

Body dull black, clothed with black hairs: head gray, with a hoary tinge in front: eyes pitchy, convex; all the facets of the female very small; those of the male rather larger on the fore part than elsewhere: sucker, palpi, and feelers black; first and second joints of the feelers dark ferruginous: chest slightly gray, somewhat pitchy on each side near the base of the wings: legs pitchy, clothed with black hairs; claws black; foot-cushions dark tawny: wings gray, with a slight tawny tinge along the fore border from the base to the brand, which is brown; wing-ribs tawny; veins black, tawny at the base; poisers pitchy. Length of the body  $1\frac{3}{4}$  line; of the wings 4 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by G. Barnston, Esq.

*For TYOLINA, read PTIOLINA, Stæger.*

*For TYOLINA tristis, read PTIOLINA obscura, Zett. Dipt. Scand. i. 227, 1. Leptis obscura, Fall. Dipt. Anthr. 14, 11. Zett. Ins. Lapp. 527, 7. Atherax obscura, Meig. Dipt. ii. 111, 11.*

a. England. Presented by F. Walker, Esq.

*PTIOLINA nigra, Zett. Dipt. Scand. i. 227, 2. Leptis obscura, var. Zett. Ins. Lapp. 527, 7.*

a. England. Presented by F. Walker, Esq.

## Page 229.

*For MYDAS clavigera, read MYDAS claviger.*

## Page 242.

For *ANTHRAX imbuta*, read *ANTHRAX Sphinx*, var. ? *Fabr. Ent. Syst.* iv. 261, 20. *Syst. Antl.* 126, 39. *Wied. Dipt. Exot.* i. 121, 4. *Auss. Zweif.* i. 258, 7.

## Page 251.

For *ANTHRAX vitreicosta*, read *ANTHRAX vitreicosta*.

## Page 286.

For *L.*, read *L.\**

## Page 293.

For *BOMBYLIUS histrio*, read *BOMBYLIUS basilaris*, var. *Wied. Zool. Mag.* iii. 46, 7, b. *Dipt. Exot.* i. 164, 7. *Auss. Zweif.* i. 335.

## Page 296.

*APATOMYZA*, Wiedemann.

*APATOMYZA nigra*, *Macq. Hist. Nat. Dipt.* i. 390, 1. *Dipt. Exot.* ii. 1, 111, 1, *pl.* 11, *f.* 1. *Cyllenia Egiale* is a synonym of this species which will form a new genus.

## Page 299.

*SYSTROPUS*, Wiedemann.

## Group I.

*SYSTROPUS macilentus*, *Wied. Nova. Dipt. Gen.* 19, *f.* 7. *Auss. Zweif.* i. 360, 1. *Macq. Hist. Nat. Dipt.* i. 592, 1, *pl.* 9, *f.* 21.

a. *Sierra Leone*. Presented by the Rev. D. F. Morgan.

## Group II.

*SYSTROPUS niger*, n. s., mas. *Niger, tharacis lateribus abdominisque basi cano micantibus, pedibus anterioribus nigro-piceis, alis nigro-piceis.*

Body, mouth, feelers, and legs black : eyes brassy-black ; fore part rather flat, its facets larger than those elsewhere : feelers nearly filiform, as long as the head and the chest ; second joint about one-third of the length of the first ; third joint flat, a little shorter and broader than the first : sides of the chest hoary : abdomen obclavate, near thrice the length of the chest ; segments from the first to the

fourth slender, covered with hoary lustre; first short; second, third, and fourth long, but successively decreasing in length; fifth, sixth, and seventh deeper; eighth and ninth very short: fore and middle legs pitchy-black; hind legs long and slender, their thighs rather thick, their shanks and feet beset with a few short spines: wings dark brown, blackish along the borders of some of the cross-veins; wing-ribs, veins, and poisers black. Length of the body 9 lines; of the wings 12 lines.

a. Brazil. From Mr. Mornay's collection.

Page 302.

DASYPOGON sabaudus belongs to the group *Stenopogon*.

Page 338.

For Mrs. Mornay, read Mr. Mornay.

Page 366.

DASYPOGON? *Damias*, n. s., mas. *Cinerea, pilis albis vestita, antennis pedibusque nigris, femoribus tibiisque anterioribus subtus fulvis, tibiis posticis subclavatis basi flavis, tarsis posticis latis, alarum discis flavo-fuscis.*

Body gray, rather short and broad, thinly clothed with white hairs, black and shining where the gray is worn away: head broader than the chest, silvery-white, clothed with white hairs, which are most thick beneath: eyes piceous; facets very small, and all of the same size: mouth black; feelers black; first and second joints short, beset with black bristles; third joint conical, pointed at the tip, much longer than the first and second: chest and breast thinly covered with white hairs, the former with a few black bristles on each side: abdomen having also some white hairs, cylindrical, narrower than the chest, and rather more than twice its length: legs black, clothed with short black hairs and longer black bristles; thighs and shanks tawny beneath, the former having some white hairs; hind thighs black, tawny at the base; hind shanks slightly club-shaped, yellow for more than one-third of their length from the base; hind feet somewhat broad: wings colourless, their disks mostly yellowish brown; wing-ribs and veins piceous, the latter black towards their tips; poisers tawny. Length of the body 6 lines; of the wings 10 lines.

a. Cape. Presented by the Entomological Club.

## Page 375.

For Mrs. Mornay, read Mr. Mornay.

## Page 382.

*LAPHRIA bilineata*, Barnston's MSS., fem. *Nigra*, thorace cinereo bivittato, abdominis disco ferrugineo, antennis pedibusque nigris, tibiis piceis, alis cinereis.

Body black, clothed with black hairs: head partly covered with hoary bloom, clothed in front and beneath with hoary hairs: eyes pitchy black; fore part flat, its facets very much larger than those elsewhere: sucker black, pitchy and clothed with pale hairs at the tip: feelers black: chest adorned with two slender, parallel gray stripes: abdomen spindle-shaped, very much longer than the chest; each segment from the third to the fifth adorned with a large triangular ferruginous spot, which is clothed with bright tawny hairs: legs black, clothed with hoary hairs and black bristles; shanks pitchy; foot-cushions tawny; claws ferruginous towards the base: wings gray; wing-ribs, veins and poisers black. Length of the body 7 lines; of the wings 14 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay Presented by G. Barnston, Esq.

## Page 402.

For Mrs. Mornay, read Mr. Mornay.

## Page 489.

*SPANIA nigra*, Meig. Dipt. vi. 335, 1, pl. 66, f. 12—14. Macq. Hist. Nat. Dipt. i. 431, 1, pl. 10, f. 14, 15.

a. Alten. Presented by F. Walker, Esq.

## Page 492.

For lævipes, read lævipes.

## Pages 503, 504.

For *HELIODROMIA*, read *HELEODROMIA*.

## Page 505.

*HEMERODROMIA melanocephala*.

c. Alten. Presented by F. Walker, Esq.

Page 507.

TACHYDROMIA, Group II. = CHERSODROMIA, *Haliday, MSS.*

Page 508.

PLATYPALPUS minutus.

b. Hammerfest. Presented by F. Walker, Esq.

Page 522.

CLITELLARIA Anchialus = Var.? CLITELLARIA chalybea, *Wied.*  
*Analecta, Ent.* 30, 36. *Auss. Zweif.* ii. 49, 4.

Page 529.

Omit Stratiomys Badius; for New Holland, read New Hampshire,  
and unite the description of S. Badius with that of S. ischiaca.

Page 536.

ODONTOMYIA fulviceps, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. From Mr. Earl's collection.

ODONTOMYIA chloris, *White, Zool. Voy. Erebus and Terror.*

a. New Zealand. From Mr. Earl's collection.

Page 537.

CERIA, *Fabr.* under SYRPHICI.

Page 539.

MESOPHILA, n. g.

MESOPHILA fuscipennis. *Ceratophya fuscipennis, Macq. Hist.*  
*Nat. Dipt.* i. 488, 3. *Microdon Agapenor, Walk.*

Page 551.

For *thoracis fasciis*, read *thoracis vittis*.

Page 580.

SYRPHUS ægrotus.

c. Java.



*Page 603.*

*For E. R. Coffin, Esq., read E. P. Coffin, Esq.*

*Page 624*

*For 89, read 189.*

*Page 647.*

*PSILOPUS gemmatus, for aureo-viridis, read aureo-viridi.*

*Page 649.*

*Omit abdomine purpureo.*

*Page 672.*

*For CONOPS flavifrons, read CONOPS aurifrons.*

*Page 674.*

*For CONOPS Bulbimus, read CONOPS aurosa, Newman, Entomologist, 222.*

*Page 678.*

*For Zodion americana, read Zodion americanum.*

*Page 680.*

*For Fam. XIX. STOMOXYDÆ, read Fam. XXI. STOMOXYDÆ.*

*Page 681.*

*STOMOXYS irritans? fem. Nigra, flavo-fusco tecta, thorace vittis quatuor interruptis obscurioribus, abdomine vitta interrupta nigro-fusca, segmentis nigro-fusco bimaculatis, palpis antennis pedibusque nigris, alis subcinereis.*

Body black, covered with yellowish brown bloom, clothed with black hairs and bristles: head yellow on each side of the feelers, hoary in front and beneath; epistoma hardly prominent; sides of

the face beset with a very few bristles at the base: eyes red; all the facets very small: sucker and palpi black: feelers black, nearly as long as the face; third joint linear, truncated at the tip, full four times the length of the second; bristle nearly twice the length of the third joint, stout for full half the length, its first joint distinct, but shorter than its second: chest adorned with four interrupted darker stripes: abdomen elliptical, a little broader but not longer than the chest, adorned with an interrupted dark brown stripe on the back, and with two dark brown spots on each segment: legs black, clothed with black hairs and bristles; thighs tinged with gray; shanks tawny at the base; foot-cushions tawny: wings slightly gray; wing-ribs pitchy; veins black, tawny at the base; tip cross-vein united with the fourth longitudinal vein by a very shallow outward curve, straight from thence till near the tip, where it is very slightly inclined inward, joining the lower border at a short distance from the tip of the wing; lower cross-vein straight for some space from the base, and then having two very indistinct curves, the lower inward, the upper outward; scales white, with pale yellow borders; poisers pale tawny. Length of the body 3 lines; of the wings 7 lines.

a. France?

STOMOXYS? *Cybira*, n. s., fem. *Flavo-fusca, tessellata, capite antico argenteo, thoracis vittis quatuor nigris, antennis pedibusque nigris, alis limpidis.*

Body black, clothed with black hairs and bristles, adorned with yellowish brown reflections: head covered in front with silvery-white lustre; epistoma slightly prominent; sides of the face beset with bristles at the base; sucker black; palpi tawny: eyes red; fore part flat, its facets larger than those elsewhere: feelers black, a little shorter than the face; third joint flat above, very slightly convex beneath, truncated at the tip; bristle very stout, much longer than the third joint: chest adorned with four black stripes; breast grayish: abdomen elliptical, dark brown, a little broader but hardly longer than the chest, adorned with yellowish brown reflections: legs black, tinged with yellowish brown; shanks tawny at the base; foot-cushions tawny: wings colourless; wing-ribs tawny; veins black, tawny towards the base; tip cross-vein united with the fourth longitudinal vein by a very shallow outward curve, almost straight from thence till near the tip, where it has an extremely slight inward curve, joining the border a little below the tip of the wing; lower cross-vein with a very slight outward curve at each end, and with an equally slight but much longer inward curve in the middle part;

whitish, with pale tawny borders. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

a. Nova Scotia. From Lieut. Redman's collection.

**STOMOXYS** *Ænos*, n. s. *Nigra, capite fusco, thoracis vittis fulvis, pectore cinereo, abdomine flavo-fusco, subtus fulvo bivittato, antennis piceis, pedibus nigris, alis limpidis.*

Body thinly clothed with black hairs and bristles: head dark brown, adorned in front with silvery lustre; epistoma slightly prominent; sides of the face beset with bristles at the base: eyes pitchy; fore part nearly flat, its facets rather larger than those elsewhere: sucker black, smooth, shining; palpi tawny: feelers pitchy, shorter than the face; third joint flat above, very slightly convex beneath, obliquely truncated at the tip, about twice the length of the second joint; bristle black, about twice the length of the third joint, thinly feathered, stout for more than half its length: chest black, adorned with indistinct tawny stripes, and on each side with a tawny patch; breast gray: abdomen black, tinged with yellowish brown; two tawny stripes on the under side: legs black, clothed with black hairs and bristles; knees and foot-cushions tawny: wings colourless; wing-ribs pitchy; veins black, tawny at the base; tip cross-vein united by a very slight curve to the fourth longitudinal vein, slightly curved inward from thence to the tip, joining the border a short distance below the tip of the wing; lower cross-vein nearly straight, but with a slight inward inclination in the middle part of its course; scales yellowish white, with pale yellow borders. Length of the body 2 lines; of the wings 5 lines.

a. New Zealand. Presented by Dr. Sinclair.

**STOMOXYS?** *Cyturus*, n. s. *Cinereo-fulva, capite cano, abdomine fulvo, pedibus nigris, antennis tibiisque ferrugineis, alis subcinereis ad costam subfuscis.*

Body black, clothed with black hairs and bristles: head ferruginous in front, adorned with a hoary covering which has a tawny tinge behind; epistoma not prominent; sides of the face fringed with bristles at the base: eyes pitchy, not hairy: sucker black, slender, much more than half the length of the body; palpi tawny, slender, beset with black bristles: feelers ferruginous, a little shorter than the face; third joint black, ferruginous at the base, linear, slender, rounded at the tip, full thrice the length of the second joint; bristle feathered: chest adorned with a grayish tawny covering: ab-

domen obconical, not longer nor broader than the chest, adorned with a tawny covering, somewhat tawny and having a hoary tinge beneath: legs black, clothed with black hairs and bristles; shanks dark ferruginous; foot-cushions tawny: wings slightly gray, with a pale brown tinge along the fore borders; wing-ribs dark tawny; veins black, pitchy towards the base; tip cross-vein forming a very obtuse angle with the fourth longitudinal vein, straight for more than half the length, very slightly curved inward from thence to the tip, joining the border a very little above the tip of the wing; lower cross-vein with a short inward curve near the base, almost straight from thence to the tip; scales grayish. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

a. West Africa. Presented by Sir E. Belcher.

Page 797.

Group — ?

*TACHINA fusiformis*, n. s. *Nigra, capite aureo, scutelli margine postico abdomineque ferrugineis, huic vittâ, fasciis apiceque nigris, antennis nigris, articulo 2<sup>o</sup> ferrugineo, pedibus nigris, tibiis obscurè ferrugineis, alis cinereis basi fulvis ad costam fuscis.*

Body black, clothed with black hairs and bristles: head adorned in front with a golden covering, thickly clothed beneath with pale yellow hairs; facials, epistoma and sides of the peristoma ferruginous; epistoma slightly prominent; sides of the face fringed with bristles at the base: eyes dark red, not hairy: sucker pitchy, clothed with tawny hairs: palpi ferruginous, beset with black bristles: feelers black; second joint ferruginous; third joint linear, rounded at the tip, full four times the length of the second; bristle tapering from the base to the tip, a little more than twice the length of the third joint, its first joint very short, second longer: chest slightly ferruginous on each side of the base of the wing; hind border of the scutcheon ferruginous: abdomen ferruginous, obconical, a little longer but hardly broader than the chest, adorned with a broad black stripe; hind borders of the second and third segments and tip black: legs black, clothed with black hairs and bristles; shanks dark ferruginous; foot-cushions yellow: wings gray, tawny at the base, brown along the fore borders till near the tips; wing-ribs dark tawny; veins pitchy, dark tawny towards the base; tip cross-vein forming a slightly obtuse angle with the fourth longitudinal vein, a little curved inward along the whole length, joining the border at some distance

above the tip of the wing; lower cross-vein with two slight curves, the lower inward, shorter than the other, which is outward; scales pale tawny, with darker borders. Length of the body 8 lines; of the wings 14 lines.

*a. Nepal.* From the Hardwicke bequest.

*Page 806.*

*For ZONA read LOXONEURA, Macquart.*

*For ZONA violacea read LOXONEURA decora, Macq. Dipt. Exot. ii. Dictya decora, Fabr. Syst. Anth. 327, 6. Platystoma decora, Wied. Auss. Zweif. ii. 568, 1.*

*Page 801.*

*For CHROMATOMYIA read LAMPROGASTER, Macq. Dipt. Exot. ii. 3, 211.*

*For CHROMATOMYIA formosa read LAMPROGASTER formosa.*

*For CHROMATOMYIA placida read LAMPROGASTER placida.*

*For CHROMATOMYIA jucunda read LAMPROGASTER jucunda. •*

*For CHROMATOMYIA Vella read LAMPROGASTER amœna.*

*For CHROMATOMYIA hilaris read LAMPROGASTER hilaris.*

*For CHROMATOMYIA apicalis read LAMPROGASTER apicalis.*

*For CHROMATOMYIA læta read LAMPROGASTER læta.*

*For CHROMATOMYIA? bicolor read LAMPROGASTER? bicolor.*

*For CHROMATOMYIA? distincta read LAMPROGASTER? distincta.*

*Page 1087.*

*OXYCEPHALA? pictipennis, n. s. Picea, capite ferrugineo, thoracis maculis sex scutelloque fulvis, abdomine basi ferrugineo, antennis fulvis, pedibus piceis, tarsis basi fulvis, femoribus posterioribus apice ferrugineis, alis fuscis ad costam fulvis.*

Body pitchy: head ferruginous, with pitchy marks on the crown and on the front: mouth black: eyes pitchy; facets on the fore part of the crown larger than those elsewhere: feelers tawny;

third joint long and nearly linear; bristle pubescent, black towards the tip, nearly twice the length of the third joint: chest minutely punctured, clothed with short tawny hairs, adorned with three large tawny spots on each side; scutcheon tawny: abdomen spindle-shaped, clothed with dark tawny down, ferruginous towards the base, which is sessile, much longer than the chest, but less than twice its length: legs pitchy, clothed with tawny down; four hind thighs ferruginous towards the tips; feet tawny towards the base; claws black; foot-cushions pale tawny: wings brown, darker along the borders of the veins, tawny along the fore borders from the base till near the tip, which is dark brown; wing-ribs and veins ferruginous; poisers tawny, with pitchy knobs. Length of the body 9 lines; of the wings 18 lines.

a. East India. From Archdeacon Clerk's collection.



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